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BIBLIOGRAPHY ON

PLAQUE AND PASTEURILLA PESTIS

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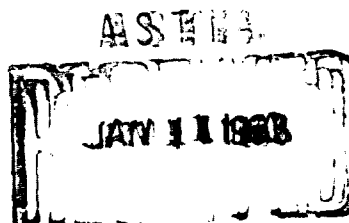
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References marked with an asterisk (*) are those which are available for loan in the Camp Detrick Technical Library. This bibliography is being kept up to date by a file of current references which is available in the library.

This bibliography contains journal references covering the years from 1900 to 1954, with greater emphasis on the last twenty years of this period. Main sources of references were: Biological Abstracts, Excerpta Medica, Sect. IV., Index Catalogue of the Surgeon-General's Office, Third and Fourth Series, the Quarterly Cumulative Index Medicus, and the Tropical Diseases Bulletin. Reference to abstracts has been given in many cases where the original paper is not available in the Camp Detrick Technical Library, and also in many cases where the original is in a foreign language.

The references have been divided into eighteen subject groupings, and one title has been repeated under as many groups as seemed appropriate. Since many of the titles are not in the Camp Detrick Technical Library, classification of those titles under the subject groups was based only on the title of the paper. In most cases, titles are given in English. The section of books, theses, etc. contains only titles of publications which could be located through the bibliographic tools available in this library, and is not claimed to be complete.

Due to the great size of the literature on this subject, this bibliography contains selected references, and it is not claimed to be complete for the years covered. However, it is hoped that the references selected are the most significant ones, and that no serious omissions have occurred.

BIBLIOGRAPHY ON
PLAGUE AND PASTEURELLA PESTIS

I. PLAGUE IN RATS

- The Advisory Committee for Plague Investigation in India.
Chronic or resolving plague.
J. Hyg. Plague Suppl. 2. p. 266-286, 1912.
Trop. Dis. Bull. 1: 539, 1913.
- The Advisory Committee for Plague Investigation in India.
Experimental plague epidemics among rats. J. Hyg. Plague Suppl. 2. p. 292-299, 1912.
Trop. Dis. Bull. 1: 541, 1913.
- * The Advisory Committee for Plague Investigation in India.
The experimental production of plague epidemics among animals.
J. Hyg. 10(Plague No.) 315-334, 1910.
- The Advisory Committee for Plague Investigation in India.
The experimental production of resolving plague and post-plague lesions in rats. J. Hyg. Plague Suppl. 2. p. 287-291, 1912.
Trop. Dis. Bull. 1: 540, 1913.
- The Advisory Committee for Plague Investigation in India.
The immunity of wild rat in India.
J. Hyg. Plague Suppl. 2. p. 229-265, 1912.
Trop. Dis. Bull. 1: 538, 1913.
- * The Advisory Committee for Plague Investigation in India.
Resolving plague in rats.
J. Hyg. 10(Plague No.): 335-348, 1910.
- Cornil, L.; Poursines, Y.; and Moustardier, G.
Morbid anatomy and histology of plague in the guinea pig and rat. Méd. Trop. 4: 111-129, 1944.
Trop. Dis. Bull. 43: 216, 1946.
- * Crowell, B. C.
Pathologic anatomy of bubonic plague. Philippine J. Sci. 101: 249-303, 1915.
- De Smidt, F. P. G.
The laboratory diagnosis of plague infections. East African Med. J. 19: 15-25, 1942.
Trop. Dis. Bull. 39: 688, 1942.
- * Dieudonné, A.; and Otto, R.
Fest. In: Handbuch der pathogenen Mikroorganismen, by W. Kolle, R. Kraus, and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928.
v. 4. p. 179-412.
- Di Mattei, E.
Anatomical evidence of murine plague infection as a contribution to the diagnosis and epidemiology of plague. Ann. d'Igiene. 34: 781-795, 1924.
Trop. Dis. Bull. 22: 381-382, 1925.

I. Plague in Rats.

- Doell, A.; and Warner, Ch.
The diagnosis of plague infection in rats by means of the thermo-precipitation method. Zeitschr. f. Hyg. u. Infektionskr. 84: 67-80. 1917.
Trop. Dis. Bull. 12: 412, 1918.
- * Douglas, J. R.; and Wheeler, C. M.
Sylvatic plague studies. I. A convenient individual mouse jar. J. Infec. Dis. 69: 29-31, 1941.
- * Eskey, C. R.; and Haas, V. H.
Plague in the western part of the United States. Infection in rodents, experimental transmission by fleas, and inoculation tests for infection. Pub. Health Repts. 54: 1467-1481, 1939.
- Fialho, A.; and Pacheco, G.
Histobacteriologic examinations of rats in Rio de Janeiro. Arch. de Hyg. 4: 31-60, 1930.
- * Girard, G.
Behavior of leprosy rats to experimental plague infection. Compt. Rend. Soc. Biol. 145: 1527-1530, 1921.
- * Herach, B. B.
Wild rodent plague in Kenya. Trans. Roy. Soc. Trop. Med. Hyg. 46: 547-549, 1952.
- * Hopkins, G. H. F. and Hennessy, R. S. F.
Cotton and plague in Uganda with appendix on post-mortem examinations of rats used in experiments. J. Hyg. 233: 247, 1938.
- * Kister.
Diagnosis of rat plague in Hamburg. Zent. f. Bakt. Abt. I. 117: 433-440, 1930.
Trop. Dis. Bull. 28: 384, 1931.
- Ledingham, J. C. G.
The pathological histology of the spleen and liver in spontaneous rat plague with observations on experimental infection. J. Hyg. 7: 359-372, 1907.
- Lépine, P.; and Bilfinger, F.
Existence of lytic principle for plague bacilli in serum of rats in Athens. Compt. Rend. Soc. Biol. 115: 131-132, 1934.
- Macalister, G. H.; and Brooks, R. St. J.
Report upon the post-mortem examination of rats at Ipswich. J. Hyg. 14: 316-330, 1914.
Trop. Dis. Bull. 5: 28, 1915.
- Macchiavello, Atilio
Pathologic anatomy of murine plague in Antofagasta. Rev. Chilena de Hig. y Med. Prev. 2: 47-52, 1939.
- * McCoy, G. W.
The problem of plague in the United States. Amer. J. Hyg. 1: 182-191, 1921.
Trop. Dis. Bull. 17: 387, 1921.
- * McCoy, G. W.
The technique of the laboratory examination of rats for plague. Publ. Health Repts. 27: 1174-1187, 1912.
- Malone, R. H. Avart, K. B.C.R.; and Nanda, B. P. B.
Bactericidal power of blood of rats as measure of their immunity to plague. Indian J. Med. Res. 13: 121-129, 1925.
Trop. Dis. Bull. 23: 183, 1926.
- * Meyer, K. F.
Sylvatic plague. Amer. J. Pub. Health. 28: 1153-1164, 1938.

I. Plague in Rats.

- Meyer, K. F.; and Batchelder, A. C.
Selective medium in the diagnosis
of rodent plague. *Plague studies I.*
J. Infec. Dis. 39: 370-385, 1926.
- Petragnani, G.
Diagnosis of plague in rats.
Bull. Off. Internat. d. Hyg. Pub.
29: 2522-2525, 1937.
Trop. Dis. Bull. 35: 756, 1938.
- Piccininni, F.
Epidemiological and anatomo-
pathologic study on plague in rats;
experimental research on immunity
of the rat against plague. *Ann.*
d. Igiene. 30: 484-496, 1920.
- Pozzo, A. A.
Sylvatic plague. *Bol. Sanitario.*
Buenos Aires. 7: 255-264, 1943.
- Savino, Enrico; Kuhn, M. J.; and
Villazon, N. M.
Resolving plague in grey rats.
Rev. Inst. Bacteriol. Buenos Aires.
12: 190-194, 1944.
- Savino, Enrico; Villazon, N. M.;
and Anchezar, Benjamin.
Presence of *Pasteurella* in gray
rats; importance in the diagnosis
of plague. *Rev. Inst. Bact. Buenos*
Aires. 9: 146-148, 1939.
- Silva, Marcello
Pasteurella pestis in rodents
and other animals. Plague and
tularemia. *Folia Med.* 23: 4-11,
1942.
Trop. Dis. Bull. 39: 687, 1942.
- Sokhey, S. S.; and Chitree, G. D.
Immunity of wild rats of India
against plague. *Bull. Off. Internat.*
d. Hyg. Pub. 29: 2093-2096, 1937.
Trop. Dis. Bull. 35: 204, 1938.
- Spencer, R. R.
Natural immunity of wild rats to
plague. *Pub. Health Repts.*
36: 2836-2837, 1921.
- Swellengrebel, N. R.
Enquiry concerning plague infection
of rats apart from their fleas.
Geneesk. Tijdschr. v. Ned. Ind.
55: 359-384, 1915.
Trop. Dis. Bull. 7: 177, 1916.
- Swellengrebel, N. H.; and Hoesen, H. W.
The occurrence of rat plague
without human plague in hidden foci.
Zeitschr. f. Hyg. u. Infektionskr.
79: 436-451, 1915.
Trop. Dis. Bull. 6: 412, 1915.
- Tomich, P. Q.
Preliminary sylvatic plague
studies in the Suez Canal Zone.
J. Roy. Egyptian Med. Assoc.
30: 239-246, 1947.
- United States Public Health Service.
The rat and its relation to
public health. *Pub. Health Bull.*
No. 30, 1910.
- Uriarte, Leopoldo; Villazon, N. M.;
and Anchezar, Benjamin.
Examination of rodents for plague.
Rev. Inst. Bact., Buenos Aires.
7: 5-15, 1935.
- Wassiliotff, A.
Rat plague in Tunis. *Bull. Off.*
Internat. d. Hyg. Pub.
29: 2097-2105, 1937.
Trop. Dis. Bull. 35: 209, 1938.
- Wherry, W. B.
The bacteriological examination
of a plague rat, with notes on the
capsular substance formed on nutrient
agar by some bacteria.
J. Infec. Dis. 21: 577-588, 1905.
- Williams, C. L.
Diagnosis and detection of rodent
plague. *Amer. J. Pub. Health.*
10: 851-864, 1920.

I. Plague in Rats.

- * Williams, C. L.
Experimentally produced late bacteremia and resolving plague in rats. Amer. J. Trop. Med. 6: 367-375, 1926.
- * Williams, C. L.; and Kemmerer, T.W.
Plague infected rats without visible lesions. Pub. Health Repts. 38: 1837-1881, 1923.
- * Wu, Lien Teh.
Hosts and carriers. In: Plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936. p. 195-248.
- Wu, Lien Teh; and Pollitzer, R.
New survey of plague in wild rodents and pneumonic plague. Reports, National Quarantine Service, 1932. p. 83-200.
- Yokoyama, Tamon
Microbiological studies on the suppression of animal vectors of plague in Manchuria. J. Oriental Med. 31: 417-565, 1939.
Trop. Dis. Bull. 37: 427, 1940.

BIBLIOGRAPHY ON PLAGUE AND PASTEURELLA PESTIS

II. PLAGUE IN MAN. CLINICAL PICTURE.

- The Advisory Committee for Plague
Investigation in India.
Chronic or resolving plague.
J. Hyg. Plague Suppl. 2.
p. 266-286, 1912.
Trop. Dis. Bull. 1: 539, 1913.
- Alain, M. and Reynes, V.
A case of plague, atypical in its
clinical and bacteriological aspects.
Méd. Trop., Marseilles. 10: 93-97.
1950.
Trop. Dis. Bull. 47: 1081, 1950.
- Araujo, Eduardo de.
Cutaneous manifestations of
plague. Brazil Méd. 31: 1-4, 1921.
- Aure, T.
A case of primary pneumonic
plague. Indian Med. Gaz.
82: 276-278, 1947.
- Borshakoff, A.
The clinical features of plague.
Geneesk. Tijdschr. v. Nederl. Ind.
76: 1830-1802, 1934.
Trop. Dis. Bull. 31: 412, 1937.
- Burton, E. and Hennessey, R.S.W.
An unusual case of plague with
meningitis. East African Med. J.
17: 266-270, 1940.
- Calmette, A.
Bubonic plague: its clinical
forms in its recent centres;
bacteriology; diagnostic experimen-
tation; anti plague sero-therapy;
defensive measures against the plague;
vaccinations; individual and general
prophylaxis. J. State Med., London.
8: 795, 1900. 9: 1, 64, 1901.
- * Chun, W. H.
Clinical features. In: Plague,
a manual for medical and public
health workers, by Lien Teh Wu, et al.
Shanghai, National Quarantine Service,
1936. p. 309-333.
- Clark, B. M.; and Goldberg, S.
Pneumonic plague: recovery in a
proved case. South African Med. J.
17: 57-60, 1943.
Trop. Dis. Bull. 40: 605, 1943.
- * Crowell, B. C.
Pathologic anatomy of bubonic
plague. Philippine J. Sci.
10: 249-303, 1915.
- De Villafane Lastra, T.
An outbreak of oriental plague
in Cordoba. Clinical-epidemiological
studies and treatment of the disease.
An. Clin. e Inst. Enf. Inf.
2: 141-181, 1940-1942.
- De Villafane Lastra, T.; and
Rodeiro, M.
Plague meningitis. Premier
Congr. Nac. Enferm. Endemo-Epidem.
Buenos Aires, 1942. p. 579-585.
Trop. Dis. Bull. 41: 399, 1944.
- * Deudonne, A., and Otto, R.
Pest. In: Handbuch der patho-
genen Mikroorganismen, by W. Kollie,
R. Kraus, and P. Uhlenhuth. 3d ed.
Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.
- Dragotti, G.
Pneumonic plague and influenzal
pneumonia. Policlinico, Sez.
Frat. 25: 1247, 1918.

16. Plague in Man. Clinical Picture.

- Durand, Paul.
A case of plague; chronic duration of 17 months. Arch. Inst. Pasteur Tunis. 20: 77-82, 1931.
- * Durand, Paul, and Conseil, Ernest.
Pulmonary plague in Tunis; clinical, anatomopathological and bacteriological study. Ann. Inst. Pasteur de Tunis. 19: 245-266, 1930.
- Fonquernie, J.
Epidemiology, clinical aspects and treatment of plague at Tananarive. Ann. de Méd. et de Pharm. Colon. 29: 246-286, 1931.
- * Girard, G., and Milliau, M.
A case of fatal bubonic plague; considerations on the virulence of bacilli isolated during evaluation of the infection. Bull. Soc. Path. Exot. 28: 860-883, 1935.
- Goldstein, G.
Clinical aspects of the lung complications of plague. East African Med. J. 19: 33-38, 1942.
Trop. Dis. Bull. 33: 689, 1942.
- Hennetsey, R. S. F.
Pneumonic plague. East African Med. J. 19: 183-190, 1942.
Trop. Dis. Bull. 40: 240, 1943.
- * Huang, C. H., Huang, C. Y., Chou, L. W., and Huang, T. F.
Pneumonic plague: report of a recovery in a proved case and a note on sulfadiazine prophylaxis. Amer. J. Trop. Med. 23: 361-371, 1948.
- Joltrain, E., and de Gennes, L.
Plague. Ann. de Med. 11: 422-434, 1922.
- Kallat, S.
Recent experiences in the symptomatology and treatment of plague. Indian Med. Gaz. 79: 168-169, 1944.
- Koenigsfeld, E. G. H.; and Nambiar, K. P. S.
Plague meningitis. Indian Med. Gaz. 81: 474-475, 1946.
Biol. Abstr. #22756, 1947.
- Kolle, W.
Plague. Deutsche Klin. 2: 106-132, 1903.
- * Kolle, W.; and Hetsch, H.
Experimental bacteriology in its applications to the diagnosis, epidemiology and immunology of infectious diseases. Chap. XIX., Plague. 7th ed., rev., transl. London, Allen & Unwin, 1934.
p. 310-338, 1934.
- * Landsborough, D.; and Tunnell, N.
Observations on plague meningitis. Brit. Med. J. 1: 4-7, 1947.
- Lee, S. T.
Some of the different aspects between influenza, pneumonia and pneumonic plague. New York Med. J. 110: 401, 1919.
- Levy, M. D., and McMicken, D.
Bubonic plague. Texas State J. Med. 16: 195-200, 1920.
Trop. Dis. Bull. 17: 389, 1921.
- Link, V. B.
Plague. J. Amer. Med. Assoc. 144: 375-377, 1950.
- Macchiavelli, Atilio
Clinical forms of plague in Northeastern Brazil. Rev. Fac. de Med. Bogota. 10: 782-796, 1942.
- * Macchiavelli, Atilio
Some special epidemiological and clinical features of plague in northeastern Brazil. Pub. Health Repts. 56: 1657-1661, 1941.

II. Plague in Man. Clinical Features.

- * McCrumb, F. B.; Mercier, S.; Robic, J.; Bouillat, M.; Smadel, J. E.; Woodward, T. E.; and Goodner, Kenneth.
Chloramphenicol and terramycin in the treatment of plague. Amer. J. Med. 14: 284-293, 1953.
- Mackay-Dick, J.
A brief report on 26 cases of bubonic plague with the results of treatment. J. Roy. Army Med. Corps. 85: 105-108, 1945.
Trop. Dis. Bull. 43: 128, 1946.
- Martin Sanz, L.
Bubonic plague. Med. Colonial, Madrid. 13: 263-277, 1952.
- Matter, E. d.
Frequency of disturbances of the respiratory apparatus and the bacteriological findings in catarrhal secretions in plague in man. Atti Accad. Gioenia Sci. Nat. Catania 15(Mem. 5): 1-5, 1927.
Biol. Abstr. #19572, 1932.
- * Meyer, E. F.
Plague. Med. Clin. North America 27: 745-755, 1932.
- * Meyer, E. F.; Connor, J. L.; Smyth, F. S. and Eddie, B.
Chronic relapsing latent meningial plague. Arch. Inter. Med. 59: 967-980, 1937.
- * Munter, E. J.
Pneumonic plague. Report of a case with recovery. J. Amer. Med. Assoc. 128: 281-283, 1945.
- * Patrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. v. 3. London, HMSO, 1929. p. 137-224.
- Phillips, J. W.
Bubonic plague. Indian Med. J. 48: 118, 1951.
- Ramalhao, C. F. M.
Plague. An. Inst. Med. Trop., Lisbon. 7: 49-63, 1951.
- Rodeiro, M.
Clinical forms of oriental plague. Rev. Méd. de Córdoba. 32: 251-270, 1944.
- Rosenstiel, H. C.; and Bateman, J. R.
Bubonic septicemic, and pneumonic plague. Rocky Mountain Med. J. 48: 42-44, 1951.
- Roux, A. H.; and Mercier, C.
Five cases of primary pneumonic plague with three cures. Bull. Soc. Path. Exot. 39: 173-178, 1946.
Trop. Dis. Bull. 44: 207, 1947.
- Shamanna, D.; and Hedge, K. V.
Clinical impressions of plague epidemic with special reference to sulfathiazole, sulfonamide therapy. Indian Med. Gaz. 21: 432-433, 1946.
- Singh, A.
A case of plague meningitis. Indian Med. J. 45: 242-243, 1951.
- * Strong, E. P.; and Teague, Oscar.
Studies on pneumonic plague and plague immunization. V. Clinical studies. Philippine J. Sci. 7B: 181-185, 1912.
- Van den Berg, W. J. H.; and Vos, J. J. T.
Clinical and anatomo-pathological observations on plague at Bandoeng. Geneesk. Tijdschr. v. Nederl. Ind. 72: 465-478; 531-552, 1932.
Trop. Dis. Bull. 29: 672, 1932.
- Videla, C. A.
Clinical picture and treatment of plague. Rev. Assoc. Med. Argent. 61(597-600): 15-25, 1947.

II. Plague in Man. Clinical Picture.

Wagle, P. M.; and Bedarkar, M. K.
Pneumonic plague and its treatment.
Indian Med. Gaz. 83: 406-408, 1948.
Trop. Dis. Bull. 46: 358, 1949.

Wagle, P. M.; and Colah, R. B. M.
Prognostic significance of
leucocytic count in bubonic plague.
Indian Med. Gaz. 82: 399-402, 1947.
Trop. Dis. Bull. 45: 256, 1948.

Wilcocks, Charles.
Plague. Méd. Trop. Marseille.
9: 227-232, 1949.

Wilcocks, Charles
Plague. Méd. Trop. Marseille.
12: 85-88, 1952.

Wright, F. J.
Some unusual clinical manifesta-
tions of plague. East African Med.
J. 19: 29-33, 1942.
Trop. Dis. Bull. 39: 688, 1942.

Young, A.
Clinical similarity between
influenza epidemic and plague.
New York Med. J. 109: 856, 1919.

ADDENDUM:

- * Pollitzer, R.
Plague studies. 8. Clinical
aspects. Bull. World Health
Organization. 9: 59-129, 1953.

BIBLIOGRAPHY ON PLAGUE AND PASTEURILLA PESTIS

III. PATHOLOGIC PICTURE

- The Advisory Committee for Plague
Investigation in India.
Chronic or resolving plague.
J. Hyg. Plague Suppl. 2. p. 266-286,
1912.
Trop. Dis. Bull. 1: 539, 1913.
- * The Advisory Committee for Plague
Investigation in India.
Resolving plague in rats.
J. Hyg. 10(Plague No.): 335-348,
1910.
- * Akulowa, R. F.; and Rudnew, G. F.
Blood picture in experimental
plague. Zent. f. Bakt. Abt. I.
119: 39-48, 1930.
Trop. Dis. Bull. 28: 388, 1931.
- * Anchezar, B. N.
Bacteriologic and anatomo-
pathologic study of the experi-
mental infection with *P. pestis*.
Rev. Inst. Bact. Buenos Aires.
3: 196-227, 1933.
Trop. Dis. Bull. 36: 313, 1935.
- Anchezar, B. N.
Bacteriological and pathological
study of experimental infection
with *Pasteurella pestis* (avirulent
strain E.V. of Girard). Rev.
Sud-Amer. Endocrin. Immunol. y
Quimioter. 23: 493-494, 1940.
Biol. Abstr. #2603, 1941.
- * Bablet, J.; and Girard, G.
Histologic lesions in primary
experimental pneumonic plague in
guinea pig. Ann. Inst. Pasteur.
52: 155-165, 1934.
Trop. Dis. Bull. 31: 885, 1934.
- Bablot, J.; Girard, G.; and
Robic, J.
Nodular and hypertrophic lesions
of spleen of guinea pig after
intraperitoneal injection of plague
bacilli of attenuated virulence.
Compt. Rend. Soc. Biol.
124: 1055-1057, 1937.
- Baltazard, M.; and Mofidi, C.
Inapparent plague in wild
rodents. Compt. Rend. Acad. Sci.
231: 731-733, 1950.
- * Bhatnagar, S. S.; and
Shrivastava, D. L.
An experimental study on cellular
immunity in *Pasteurella pestis*
infection. J. Hyg. 44: 307-313,
1946.
- Bonne, C.
Pathologic anatomy of primary
pneumonic plague. Geneesk. Tijdschr.
v. Nederl. Ind. 24: 564-571, 1935.
Trop. Dis. Bull. 32: 352, 1935.
- Braul, Y. E.
Pathologic anatomy of chronic
plague in marmots. Vest. Mikrobiol.
Epidemiol. i Parazitol. 10: 175-179,
1931.
- Choksy, W. H.
A post graduate lecture on the
pathology of plague. Indian Med.
Gaz. 62: 510-514, 1927.
- Cornil, L.; Poursines, Y.; and
Moustardier, G.
Morbid anatomy and histology of
plague in the guinea pig and rat.
Med. Trop. Marseilles. 4: 111-129,
1944.
Trop. Dis. Bull. 43: 216, 1946.

III. Pathologic Picture.

- * Crowell, B. C.
Pathologic anatomy of tubonic plague. *Philippine J. Sci.* 10: 249-308, 1915.
- Dickie, W. M.
Pathology and bacteriology of plague. *Proc. Conf. State & Prov. Health Authority North America.* 21: 68-78, 1926.
- * Dieudonne, A.; and Otto, R.
Pest. In: *Handbuch der pathogenen Mikroorganismen*, by W. Kolle.; R. Kraus; and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928. v. 4, p. 179-412.
- Di Mattei, E.
Anatomical evidence of murine plague infection as a contribution to the diagnosis and epidemiology of plague. *Ann. d'Igiene.* 34: 731-795, 1924.
Trop. Dis. Bull. 22: 381-382, 1925.
- * Durand, Paul; and Conseil, Ernest
Pulmonary plague in Tunis; clinical anatomopathological and bacteriological study. *Ann. Inst. Pasteur de Tunis.* 19: 245-266, 1930.
- * Ebersson, Frederick; and Wu, Lien Teh
Transmission of pneumonic and septicemic plague among marmots. *J. Infec. Dis.* 20: 170-179, 1917.
- Fialho, A.; and Pacheco, G.
Histobacteriologic examinations of rats in Rio de Janeiro. *Arch. de Hyg.* 4: 31-50, 1930.
- Fujinami, Akira.
A study of the morbid histology of the 1921 Manchurian plague epidemic. *Natl. Med. J. China.* 10: 287-306, 1924.
Trop. Dis. Bull. 22: 274, 1925.
- Fujinami, Akira; and Wu, Lien Teh
Morbid histology of pneumonic plague. *China Med. J.* 38: 617-626, 1924.
- Gaud, M.; and Jorge, R.
Importance of subpectoral bubo in the diagnosis and evolution of plague. *Bull. Off. Internat. d'Hyg. Pub.* 25: 1924-1930, 1933.
- * Gomila, F. R.
A characteristic exanthem in epizootic plague and the experimental reproduction of this lesion in the guinea pig. *Proc. Soc. Exper. Biol. Med.* 27: 913-919, 1930.
- Gubarev, E. M.; and Chernovaev, V. S.
Nitrogen content of blood in experimental plague of guinea pigs. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 12: 135-137, 1933.
- Hennessey, R. S. F.
Pneumonic plague. *East African Med. J.* 19: 133-190, 1942.
Trop. Dis. Bull. 40: 240, 1943.
- * Hopkins, G. H. E.; and Hennessey, R. S. F.
Cotton and plague in Uganda, with appendix on post-mortem examinations of rats used in experiments. *J. Hyg.* 33: 233-247, 1938.
- Ivanovsky, N.; Gubarev, E. M.; and Goloff, D.
Blood chemistry in experimental plague. I. Residual nitrogen, sugar, calcium and chlorides in the blood of guinea pigs. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 3: 291-295, 1929.
Biol. Abstr. #1047, 1933.
Trop. Dis. Bull. 27: 739, 1930.
- * Jawetz, E.; and Meyer, K. F.
The behavior of virulent and avirulent *P. pestis* in normal and immune experimental animals. *J. Infec. Dis.* 74: 1-13, 1944.

III. Pathologic Picture.

- * Jawetz, E.; and Meyer, K. F.
Experimental infection of the chick embryo with virulent and avirulent *Pasteurella pestis*.
Amer. J. Path. 20: 457-469, 1944.
- Jettmar, H. M. v.
Some remarks on the epidemiology and histology of pneumonic plague.
Arch. f. Schiffs- u. Tropenhyg. 29: 650-665, 1925.
- Karauloff, F. V.
Patho-anatomical changes of the organs of animals when attacked by the bacillus of human plague; experimental study. Uchen. Zapiski Kazan. Vet. Inst. 16: 91, 569, 1899. 17: 139, 1900.
- Kellog, W. H.
The pathology and bacteriology of bubonic plague. Trans. Med. Soc. California. p. 50-92, 1901.
- * Kelle, C., and Hetsch, H.
Experimental bacteriology in its applications to the diagnosis, epidemiology and immunology of infectious diseases. Chap. XIX. Plague. 7th. ed. rev. transl. London: Allen & Unwin 1934. p. 310-338.
- Kulescha, G. S.
On pathologic anatomy of lung plague. Lesions of mucous membrane the respiratory tract during lung plague. Vest. Mikrobiol. i Epidemiol. 3: 125-130, 1924. English summary. p. 214-215. Trop. Dis. Bull. 22: 275, 1925.
- Kulescha, G. S.
On pathologic anatomy of lung plague. Lesions of mucous membrane in the respiratory tract during lung plague. Virchow's Arch. f. Path. Anat. u. Physiol. 254: 174-183, 1925. Trop. Dis. Bull. 22: 375, 1925.
- Landsborough, D.; and Tunnell, N.
Observations on plague meningitis. Brit. Med. J. 1: 4-7, 1947.
- Ledingham, J. C. G.
The pathological histology of the spleen and liver in spontaneous rat plague with observations on experimental infection. J. Hyg. 7: 359-372, 1907.
- Lewillon, R.; Devignat, R.; and Schoetter, M.
A case of primary plague meningitis. Ann. Soc. Belge de Med. Trop. 20: 79-82, 1940.
- Lobanov, V. N.
Histologic changes in *Pallasomyia meridiana* infected with experimental plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 277-292, 1940.
- Macalister, G. H.; and Brooks, R. St. J.
Report upon the post-mortem examination of rats at Ipawich. J. Hyg. 14: 310-330, 1914. Trop. Dis. Bull. 5: 28, 1915.
- Macchiavello, Atilio
Pathologic anatomy of murine plague in Antofagasta. Rev. Chilena de Hig. u Med. Prev. 2: 47-52, 1939.
- * Macchiavello, Atilio; and Uriquen, Daniel.
Experimental plague in guinea pigs inoculated with *P. pestis* of the Ecuador strain. Rev. Ecuador Hig. u Med. Trop. 1: 177-193, 1944. Also: Puerto Rico J. Pub. Health & Trop. Med. 19: 577-601, 1944.
- * McCoy, G. W.
The problem of plague in the United States. Amer. J. Hyg. 1: 132-191, 1921.

III. Pathologic Picture.

- * McCoy, G. W.
The technique of the laboratory examination of rats for plague. Pub. Health Repts. 27: 1174-1187, 1912.
- Manaud, A.
Observations and experimental research on the pathology of pneumonic plague. Far East Assoc. Trop. Med., Trans. ed Biennial Congress, 1913. p. 213-223.
Trop. Dis. Bull. 5: 395, 1915.
- Maruyama, Y.
Relation between the changes in the leucocyte picture in rabbits inoculated with plague bacilli and the formation of antibodies. Taiwan Igakkai Zasshi. No. 243: 1-4, 1925.
Trop. Dis. Bull. 23: 184, 1926.
- * Meyer, K. F.; Connor, C. L.; Smyth, F. S.; and Eddie, B.
Chronic relapsing latent meningeal plague. Arch. Inter. Med. 59: 967-980, 1937.
- * Nattan-Larrier, L.; and Richard, L.
Histology of primary pneumonic plague. Bull. Soc. Path. Exot. 24: 333-394, 1931.
Trop. Dis. Bull. 29: 374, 1932.
- Petrie, G. F.
Bacillus pestis. In: Great Britain. Medical Research Council. A system of bacteriology in relation to medicine. Vol. 3. London, HMSO, 1929. p. 137-224.
- Piccininni, F.
Epidemiological and anatomico-pathologic study on plague in rats; experimental research on immunity of the rat against plague. Ann. d'Igiene. 30: 484-496, 1920.
- * Pollitzer, R.
Pathology. In: Plague, a manual for medical and public health workers, by Lien Teh Wu et al. Shanghai, National Quarantine Service, 1936. p. 139-156.
- * Pollitzer, R.
Plague studies. IV. Pathology. Bull. World Health Organization. 5: 337-376, 1952.
- Popov, V. N.
Localization of *B. pestis* in the organs of spermophils in spontaneous plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 63-68, 1931.
Biol. Abstr. #6330, 1933.
Trop. Dis. Bull. 28: 877, 1931.
- * Raynal, M. J.
Epidemic of bubonic plague in Diego-Suarez; post mortem findings; serum therapy and vaccination. Bull. Soc. Path. Exot. 19: 592-604, 1926.
- Sabolotnow, F.; and Schmidt, B.
Morphology of experimental lung plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 155-163, 1930.
- Sathe, R. G.
Notes on the pathological lesions observed in domestic animals experimentally infected with plague. Indian Vet. J. 7: 142-147, 1930.
- * Savino, Enrico; Kuhn, M. J.; and Morales Villazon, N.
Resolving plague in gray rats. Rev. Inst. Bacteriol., Buenos Aires. 12: 190-194, 1944.
Trop. Dis. Bull. 42: 559, 1945.
- Schoebl, Otto
Bacteriological observations made during the outbreak of plague in Manila in 1912. Philippine J. Sci. 8B: 409-428, 1913.

III. Pathologic Picture.

- Signorelli, E.
Morbid changes produced by the
B. pestis and its toxin in the lungs.
Lo Sperimentale. 67: 155-166, 1913.
Trop. Dis. Bull. 2: 273-274, 1913
- * Strong, R. P.; Crowell, B. C.; and
Teague, Oscar.
Studies on pneumonic plague and
plague immunization. VII.
Pathology. Philippine J. Sci.
7B: 203-221, 1912.
- * Strong, R. P.; and Teague, Oscar
Studies on pneumonic plague and
plague immunization. IV. Portal
of entry of infection and method
of development of the lesions in
pneumonic and primary septicaemic
plague. experimental pathology.
Philippine J. Sci. 7B: 173-180,
1912.
- Van den Berg, W. J. R.; and
Vos, J. J. T.
Clinical and anatomic-pathological
observations on plague at Badoeng.
Geneesk. Tijdschr. v. Nederl. Ind.
72: 465-478, 531-561, 1932.
Trop. Dis. Bull. 29: 672, 1932.
- Vint, F. W.
The pathology of plague. East
African Med. J. 19: 11, 1942.
Trop. Dis. Bull. 35: 487, 1942.
- Wade, H. W.
On the bacteriology and pathology
of bubonic plague. New Orleans
Med. & Surg. J. 67: 41, 426, 1914-
1915
- Wagle, P. M.; and Colah, R. B. M.
Prognostic significance of
leucocytic count in bubonic plague.
Indian Med. Gaz. 82: 399-402, 1947.
Trop. Dis. Bull. 45: 256, 1948.
- * Williams, C. L.; and Kemmerer, T. W.
Plague infected rats without
visible lesions. Pub. Health
Repts. 38: 1873-1881, 1923.
- Wu, Lien Teh; and Woodhead, G. S.
Notes on the histology of some
of the lesions present in pneumonic
plague. J. Path. & Bact.
19: 1-32, 1914-1915.
- Zabolotnov, P.; and Shmidt, B.
Morphology of experimental
pneumonic plague. Vest. Mikrobiol.
Epidemiol. i Parazitol.
9: 155-168, 1930.
Biol. Abstr. #10729, 1932.
- * Zhukov-Verezhnikov, N. N.
Immunology of plague; theoretical
principles of the pathology and
immunology of plague. Zhur. Mikrobiol.
Epidemiol. i Immunobiol.
No. 4-5 34-41, 1945.

BIBLIOGRAPHY ON PLAGUE AND PASTEURELLA PESTIS

IV. PASTEURELLA PESTIS. CULTURE. MORPHOLOGY.

- * Abel, Rudolf
Knowledge of the plague bacillus.
Zent. f. Bakt. Abt. I.
21: 497-517, 1897.
- * Advier, M.
Existence of a lytic principle
for Yersin's bacillus in the blood
of a convalescent of plague.
Compt. Rend. Acad. Sci.
194: 1397-1399, 1932.
- Admier, M.
Character of a principle which
lyses plague bacilli in human
blood. Compt. Rend. Soc. Biol.
120: 161-163, 1932.
Biol. Abstr. #1258, 1934.
Trop. Dis. Bull. 29: 679, 1932.
- Alain, M.; and Reynes, V.
A case of plague, atypical in
its clinical and bacteriological
aspects. Méd. Trop. Marseilles.
13: 93-97, 1929.
- Albrecht, H.; and Ghon, A.
Bacteriological studies on
plague bacillus. Dankschr. d. Kaiser
Akad. d. Wissensch. 66: 581-827,
1900.
- Alvarado, C. A.
A simple procedure for the
post mortem diagnosis of human
plague. Bull. Panamer. Sanit. Bur.
21: 129-132, 1942.
Trop. Dis. Bull. 39: 689, 1942.
- * Anchezar, B. N.
Bacteriologic and anatomo-
pathologic study of the experi-
mental infection with P. pestis.
Rev. Inst. Bact. Buenos Aires.
8: 196-227, 1938.
Trop. Dis. Bull. 36: 313, 1939.
- Anchezar, B. N.
Bacteriological and pathological
study of experimental infection with
Pasteurella pestis (avirulent strain
E.V. of Girard). Rev. Sud-Amer.
Endocrin. Immunol. y Quimioter.
23: 493-494, 1940.
Biol. Abstr. 15: 2603, 1941.
- * Baltazard, M.; and Aslani, P.
Biochemical characteristics of
strains of "wild" plague in Kurdistan.
Ann. Inst. Pasteur. 83: 241-247,
1952.
- Berdnikoff, V. A.
Effect of fixation and staining
on viability of P. pestis.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 8: 33-39, 1929.
Biol. Abstr. #9129, 1934.
Trop. Dis. Bull. 26: 538, 1929.
- * Berkman, Sam
Accessory growth factor require-
ments of the members of the genus
Pasteurella. J. Infec. Dis.
71: 201-211, 1942.
- * Berkman, Sam; and Koser, S. A.
Accessory growth factor require-
ments of the genus Pasteurella.
J. Bact. 41: 38-39, 1941.
- * Berkman, Sam; Saunders, Felix; and
Koser, S. A.
Accessory growth factor require-
ments of some members of the
Pasteurella group. Proc. Soc. Exper.
Biol. Med. 44: 68-70, 1940.
- Berlin, A.L.; and Berzenkova, A.
Fermentive characteristics of
Mongolian strains of Bacillus pestis.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 17: 215, 1938.

IV. *Bacillus pestis*. Culture. Morphology.

Berlin, A. P.; and Basheva, V. S.
Conservation of materials for
plague investigation. Vest.
Mikrobiol. Epidemiol. i Parazitol.
16: 26-39, 1938.
Biol. Abstr. #5102, 1940.

Berlin, A. P.; and Borzenkov, A. K.
Fermentative characteristics of
the Mongolian strain of *B. pestis*.
I. Fermentative activity in rela-
tion to various carbohydrates,
alcohols, and glucosides; the
relation of the plague bacillus
strains to glycerine. Vest.
Mikrobiol. Epidemiol. i Parazitol.
17: 215-227, 1938.
Biol. Abstr. #9266, 1943.

Berlin, A. P.; and Borzenkov, A. K.
Rhamnose positive plus variants
of *B. pestis* and the differential
diagnostic value of a rhamnose
medium. Vest. Mikrobiol. Epidemiol.
i Parazitol. 17: 238-246, 1938.
Biol. Abstr. #5101, 1943.

Bessonova, A. A.
Another case of production of
pigments in plague bacilli.
Gig. i. Bakteriol. i Immunol.
16: 154-160, 1936.
Trop. Dis. Bull. 34: 189, 1937.

Bessonova, A. A.
Further cases of pigment forma-
tion in *Bacillus pestis*. Vest.
Mikrobiol. Epidemiol. i Parazitol.
10: 159-165, 1931.
Biol. Abstr. #16066, 1934.

Bessonova, A. A.
Method of culture of transi-
tional rough (OR) variants of plague
bacilli. Vest. Mikrobiol.
Epidemiol. i Parazitol.
15: 195-197, 1936. English
summary, p. 197-198.

Bessonova, A. A.
Nutrient deficient acid agar
as differentiating medium for
Bacillus pestis and *Bacillus pseudo-*
tuberculosis rodentium (Pfeiffer).
Vest. Mikrobiol. Epidemiol. i
Parazitol. 8: 264-269, 1929.
Biol. Abstr. #13761, 1932.
Trop. Dis. Bull. 27: 739, 1930.

Bessonova, A. A.
Peptone water and rhamnose as
differentiating medium for *Bacillus*
pestis and *B. pseudotuberculosis*
rodentium (Pfeiffer). Vest. Mikrobiol.
Epidemiol. i Parazitol. 8: 458-461,
1929.
Biol. Abstr. #13763, 1932.
Trop. Dis. Bull. 27: 739, 1930.

* Bessonova, A. A.
Peptone water and rhamnose as
differentiating medium for *Bacillus*
pestis and *B. pseudotuberculosis*
rodentium (Pfeiffer). Zent. f.
Bakt. Abt. I. 119: 32-35, 1930.

Bessonova, A. A.
Two variations of *B. pestis* in
relation to glycerin. Vest.
Mikrobiol. Epidemiol. i Parazitol.
7: 250-253, 1928. English summary
p. 336-337.
Biol. Abstr. #22042, 1930.
Trop. Dis. Bull. 26: 637, 1929.

Bessonova, A. A. et al.
The application of synthetic
medium in the differentiation of
B. pestis and *B. pseudotuberculosis*
rodentium. Vest. Mikrobiol.
Epidemiol. i Parazitol.
19: 221-225, 1940.

Bessonova, A. A.; Egorov, A.;
Kozlovskaya, A.; and Melnikova, S.
Differentiation of *B. pestis* and
B. pseudotuberculosis rodentium by
culture of small, gradually de-
creasing quantities of bacterial
bodies on peptone-less agar. Vest.
Mikrobiol. Epidemiol. i Parazitol.
19: 219-220, 1940.

IV. *Bacillus pestis*. Culture. Morphology.

- Bessonova, A. A.; and Konovalova, S.
Importance of glycerine medium
in differential diagnosis of *B.*
pestis and *B. pseudotuberculosis*
rodentium of Pfeiffer. *Compt.*
Rend. Premier Congrès Antipest, URSS.
1927: 289-302 (1928). French
summary, p. 482.
Biol. Abstr. #1767, 1931.
- Bessonova, A. A.; and Lenskaya, G. N.
Broth clouding variations of
B. pestis. *Vest. Mikrobiol.*
Epidemiol. i Parazitol.
8: 270-279, 1929. English summary,
p. 254-256.
Trop. Dis. Bull. 27: 738, 1930.
- * Bessonova, A. A.; and Lenskaya, G. N.
Studies on the dissociation of
B. pestis. Broth clouding varia-
tions of plague bacilli. *Zent. f.*
Bakt. Abt. I. 119: 430-443, 1931.
Biol. Abstr. #13762, 1932.
- Bessonova, A. A.; and Lenskaya, G. N.
Dissociation of *Bacillus pseudo-*
tuberculosis rodentium and of
Bacillus pestis. *Vest. Mikrobiol.*
Epidemiol. i Parazitol. 10: 221-239,
1931.
- * Bessonova, A. A.; and Lokhov, M. G.
A case of pigment production by
plague bacilli. *Zent. f. Bakt.*
Abt. I. 119: 35-38, 1930-1931.
- Bessonova, A. A.; and Lokhov, M. G.
A case of pigment production by
plague bacilli. *Vest. Mikrobiol.*
Epidemiol. i Parazitol.
9: 109-112, 1930. English summary,
p. 137.
Biol. Abstr. #10865, 1932.
- Bessonova, A. A.; Molodtsova, P.;
Mosolova, O.; et al.
Concerning the differentiation of
B. pestis and *B. pseudotuberculosis*
rodentium Pfeiffer by means of certain
strains of plague bacteriophage.
Vest. Mikrobiol. Epidemiol. i Parazitol.
17: 228-231, 1938.
Biol. Abstr. #5650, 1943.
- Bessonova, A. A.; Semikoz, F.;
and Kotelnikov, G.
Atypical forms of colonies of
B. pestis. *Vest. Mikrobiol.*
Epidemiol. i Parazitol. 6: 394-401,
1927. English summary, p. 472-473.
Biol. Abstr. #24148, 1933.
Trop. Dis. Bull. 25: 674, 1928.
- * Bhatnagar, S. S.
Bacteriological studies of
Pasteurella pestis and *Pasteurella*
pseudotuberculosis. I. The morphology
growth and the dissociation of
Pasteurella pestis. II. The
serology of *Pasteurella pestis* and
Pasteurella pseudotuberculosis.
Indian J. Med. Res. 28: 1-42, 1940.
- Bokalev, A. E.; Vedishtcheff, S. V. et al.
Symbiosis of *Bacillus pestis* and
Bacillus pseudotuberculosis rodentium
Pfeiffer with *Sarcina*. *Vest.*
Mikrobiol. Epidemiol. i Parazitol.
10: 241-247, 1930.
Biol. Abstr. #36067, 1934.
- * Bokalev, A. E.; Vedishtcheff, S. V.;
Sabinin, A.; Jegerow, A.; and
Grikuraw, W.
Symbiosis of *Bacillus pestis* and
Bacillus pseudotuberculosis
rodentium Pfeiffer with *Sarcina*.
Zent. f. Bakt. Abt. I.
125: 32-37, 1931.
- Boncinello, U.; and Aradas, A.
Relation between *P. pestis* and
B. pseudotuberculosis rodentium with
regard to cultural methods of
differentiation. *Boll. d. Ist.*
Sieroterap. Milanese. 12: 346-362,
1933.
Trop. Dis. Bull. 31: 33, 1934.

IV. *Bacillus pestis*. Culture. Morphology.

Brooks, R. St. J.

The influence of the medium in which the plague bacillus is propagated upon the facility with which it is ingested by human leucocytes. *J. Hyg. Plague Suppl.* 3. p. 412-417, 1914.
Trop. Dis. Bull. 3: 206, 1914.

Burgess, A. S.

Virulence, immunity and bacteriological variation in relation to plague. *J. Hyg.* 30: 165-179, 1930.
Biol. Abstr. #28276, 1931.
Trop. Dis. Bull. 28: 389, 1931.

* Burnet, E.

Studies on the filterable forms of bacteria. Experiments with plague bacilli. *Arch. Inst. Pasteur de Tunis.* 15: 292-304, 1926.
Biol. Abstr. #11482, 1928.
Trop. Dis. Bull. 24: 458, 1927.

Bychkov, V. A.; and Borzenkov, A.

On diagnosing plague in fleas by preparing and culturing their isolated stomach-intestinal tract. *Vest. Mikrobiol., Saratov.* 12: 25, 1929.

Bystryntsin, A. I.

Chemical composition of plague bacilli. *Vestnik. Mikrobiol. Epidemiol. i Parazitol.* 19: 433-437, 1940. German summary.
Chem. Abstr. 36: 1975.

Bystryntsin, A. I.; Lipatova, I. I.; and Khvorostukhina, M. M.

Growth of plague bacillus on media containing various amounts of products of protein disintegration. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 16: 281-285, 1939.

Calmette, A.

Bubonic plague; its clinical forms in its recent centres; bacteriology; diagnostic experimentation; anti-plague sero-therapy; defensive measures against the plague; vaccinations; individual and general prophylaxis. *J. State Med.* 8: 795, 1900.
9: 1, 64, 1901.

Castellani, A.

Brief note on culture medium used in differentiation between *Bacillus pestis* and *Bacillus pseudotuberculosis rodentium*. *J. Trop. Med.* 42: 158, 1939.
Trop. Dis. Bull. 36: 963, 1939.

Castellani, A.

Method of differentiating *P. pestis* and *P. pseudotuberculosis rodentium*. *Bull. Off. Internat. d'Hyg. Pub.* 30: 2750, 1938.

* Chen, T. H.

Behavior of *Pasteurella pestis* in glycerin and rhamnose mediums. *J. Infect. Dis.* 85: 97-100, 1949.

Chernovae, V. S.

Nucleus of *Bacillus pestis* in bouillon cultures. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 11: 255-257, 1932.

Chernomordak, A. B.

Polymorphism of *Pasteurella*. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 11: 247-248, 1940.

Chestnik, M. L.

Conditions for capsule development in *Pasteurella pestis*. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 19: 440-448, 1940.

IV. *Pasteurella pestis*. Culture. Morphology.

Colas-Belcour, J.

Value of glycerinated medium in differential diagnosis of cultures of plague bacillus and of bacillus of pseudotuberculosis of rodents. Compt. Rend. Soc. Biol. 94: 238-240, 1926. Trop. Dis. Bull. 23: 619, 1926.

Colichon, H.

Bacteriologic studies on *Pasteurella pestis*. Rev. Méd. Exper. Lima. 1: 56-83, 1942. Biol. Abstr. #16754, 1945.

Couvy, L.

Bacteriophage of Yersin's bacillus and its behavior in vivo. Compt. Rend. Soc. Biol. 110: 33-41, 1932. Biol. Abstr. #1263, 1934. Trop. Dis. Bull. 29: 677, 1932.

* D'Aunoy, Rigney.

Studies on *Bacillus pestis*; optimum and limiting hydrogen-ion concentration for growth of *Bacillus pestis*. J. Infect. Dis. 33: 391-415, 1925.

De Smidt, F. P. G.

Bacteriology of Nairobi plague prophylaxis. Kenya and East African Med. J. 1: 1-52, 1928. Trop. Dis. Bull. 14: 34, 1929.

De Smidt, F. P. G.

The laboratory diagnosis of plague infections. East African Med. J. 19: 15-25, 1942. Trop. Dis. Bull. 39: 633, 1942.

De Smidt, F. P. G.

Laboratory notes on plague in Kenya. J. Hyg. 29: 201-213, 1929.

Devignat, R.

Aeration of fluid culture media. *P. pestis* in aerated media. Supplementary observations. Rec. Travaux Sci. Méd. Congo Belge. No. 3: 112-119, 1945.

Devignat, R.

Aeration of fluid culture media. Supplementary observations. Edinburgh Med. J. 51(3): 124-130, 1944. Chem. Abstr. 38: 5523⁸. Trop. Dis. Bull. 41: 668, 1944.

Devignat, R.

Aeration of liquid media. Rec. Travaux Sci. Méd. Congo Belge. No. 1: 145-160, 1942. Chem. Abstr. 37: 5440. Trop. Dis. Bull. 40: 390, 1943.

Devignat, R.

Broquet's medium for examination of plague fleas. Ann. Soc. Belge de Méd. Trop. 18: 215-219, 1938. Trop. Dis. Bull. 18: 215-219, 1938.

Devignat, R.

Chromogenic dissociation of the E.V. strain. Rec. Travaux Soc. Méd. Congo Belge. No. 3: 120-127, 1945. Trop. Dis. Bull. 42: 806, 1945.

Devignat, R.

Collective diagnosis of murine plague by placing femoral marrow of rats in physiological solution and inoculating guinea pig with resulting emulsion. Ann. Soc. Belge de Méd. Trop. 20: 42-43, 1940.

* Devignat, R.

Varieties of *P. pestis* - a new hypothesis. Bull. World Health Organization. 4: 247-263, 1951. Trop. Dis. Bull. 49: 45, 1952.

Devignat, R. and McVicar, A.

The biochemistry of central African strains of plague in the Belgian Congo. Bull. Soc. Path. Exot. 44: 279-284, 1951. Trop. Dis. Bull. 48: 934, 1951.

IV. *Pasteurella pestis*. Culture. Morphology.

- Devignat, R.; and Schoetter, M.
The plague bacillus in aerated medium. Rec. Travaux Sci. Méd. Congo Belge. No. 1: 161-181, 1942. Chem. Abstr. 37: 5440. Trop. Dis. Bull. 40: 391, 1943.
- Dickie, W. M.
Pathology and bacteriology of plague. Proc. Conf. State & Prov. Health Authority North America. 21: 68-78, 1926.
- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der pathogenen Mikroorganismen, by W. Kollé, R. Kraus, and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928. v. 4, p. 179-412.
- Dobradin, P. M.; and Skorodumov, A.
Collected works of the anti-plague organization of the eastern Siberian region for 1929-1931. Trans. East Siberian Reg. Inst. of Microbiol. & Epidemiol. v. 1, 1933. 120p. Trop. Dis. Bull. 32: 451, 1935.
- Donskov, G. D.; and Lokhov, M. G.
Effect of alcohol on morphologic biochemical and biologic characteristics of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 137-138, 1935. Trop. Dis. Bull. 34: 414, 1937.
- * Doudoroff, Michael
Studies on the nutrition and metabolism of *Pasteurella pestis*. Proc. Soc. Exper. Biol. Med. 53: 73-75, 1943.
- * Drennan, Jennie; and Teague, Oscar.
Selective medium for isolation of *B. pestis* from contaminated plague lesions and observations on growth of *B. pestis* on autoclaved nutrient agar. J. Med. Res. 36: 519-532, 1917.
- * Durand, Paul; and Conseil, Ernest.
Long ganglionic persistence of plague bacillus in man after recovery. Arch. Inst. Pasteur de Tunis. 16: 92-98, 1927.
- * Durand, Paul; and Conseil, Ernest.
Pulmonary plague in Tunis; clinical, anatomopathological and bacteriological study. Arch. Inst. Pasteur de Tunis. 19: 245-266, 1930.
- Faddeeva, T. D.; and Chernovaev, V.
Bacillus *pestis* in mixed culture; antagonism of various species of bacteria towards plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 346-356, 1935. English summary, p. 357-358. Trop. Dis. Bull. 33: 875, 1936.
- * Fauconnier, J.
The decomposition of urea in Ferguson synthetic medium by *Pasteurella pseudotuberculosis*, new reaction for differentiating the etiologic agents of plague and pseudotuberculosis. Ann. Inst. Pasteur. 79: 104-105, 1950.
- Favorisova, B. Y.
Morphologic changes of plague bacilli produced by bacteriophage. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 11-19, 1939. Trop. Dis. Bull. 36: 965, 1939.
- Fialho, A.; and Pacheco, G.
Histobacteriologic examinations of rats in Rio de Janeiro. Arch. de Hyg. 4: 31-60, 1930.
- * Francis, Edward.
Twenty-five year survival of a *Pasteurella pestis* culture without transfer. Pub. Health Repts. 64: 238-240, 1949.

IV. *Pasteurella pestis*. Culture. Morphology.

- * Francis, Edward.
Twenty-year survival of virulent *Bacillus pestis* cultures without transfer. Pub. Health Repts. 58: 1379-1382, 1943.
- Fusco, G.
Nitrous acid reaction of plague cultures. Pathologica. 19: 444, 1927.
- Fusco, G.; and Patane, C. G.
The fine structure of the plague bacillus. Pathologica. 14: 570, 1922. 15: 253, 1923.
- Galeotti.
Toxin production. Rept. Internat. Plague Conf., 1911. p. 50-53, 1912.
- * Garber, E. D.; Noble, Kathryn; and Carouso, N.
Genetic studies on the development of streptomycin resistance in *Pasteurella pestis*. J. Bact. 65: 485-489, 1953.
- * Garber, E. D.; Wolochow, H.; and Smith, Priscilla.
A solid medium for detecting colonial variants of *Pasteurella pestis*. J. Bact. 61: 523, 1951.
- Gelberger, J.
Contribution to the study of the morphology and capsule of the plague bacillus. Rinasce. Med. Napoli. 2: 467-470, 1926.
- Girard, Georges
Antagonism of leprosy toward plague. Bull. Acad. Nat. Méd. 136: 20-33, 1952.
- * Girard, Georges
The association of the pneumococcus and the plague bacillus in vivo and in vitro. Ann. Inst. Pasteur. 72: 708-718, 1946.
Trop. Dis. Bull. 44: 520, 1947.
- * Girard, Georges
Secondary characteristics of cultures obtained by bacteriophage action on plague and mutation to the pseudotuberculosis bacillus. Ann. Inst. Pasteur. 73: 642-649, 1947.
- Girard, Georges.
Culture and bacteraemia in plague. Bull. Soc. Path. Exot. 37: 328-331, 1944.
Trop. Dis. Bull. 43: 439, 1946.
- * Girard, Georges
Detection of plague in Madagascar after death; lung and liver puncture. Bull. Soc. Path. Exot. 18: 603-617, 1925.
Trop. Dis. Bull. 23: 180, 1926.
- Girard, Georges.
Hemoculture in pneumonic plague in Madagascar. Congr. Internat. de Méd. Trop. et d'Hyg. Compt. Rend. 3: 973-985, 1931.
- * Girard, Georges.
Hemoculture in pneumonic plague in Madagascar. Bull. Soc. Path. Exot. 22: 224-233, 1929.
- Girard, Georges.
Identification of plague bacilli by inoculating guinea pig with serous fluids obtained by puncture, diluted with salt water. Bull. Soc. Path. Exot. 31: 669-678, 1938.
- * Girard, Georges
New characters differentiating plague and pseudotuberculosis bacilli from *Pasteurella*. Ann. Inst. Pasteur. 68: 475-478, 1942.
Trop. Dis. Bull. 40: 139, 1943.
- * Girard, Georges.
Nitrite reaction for the separation of the plague bacillus from the bacillus of pseudotuberculosis. Compt. Rend. Soc. Biol. 133: 244-246, 1940.

IV. Pasteurella pestis. Culture. Morphology.

- * Girard, Georges
Pasteurella pestis mutants selected or induced by bacteriophage; eventual reversibility; theoretical and epidemiological importance. Compt. Rend. Acad. Sci. 234: 1590-1592, 1952.
- * Girard, Georges.
Post-mortem detection of plague by means of organ puncture. Thirty years experience in Madagascar. Bull. World Health Organization. 5: 109-116, 1952.
- * Girard, Georges.
Production of crystals by a strain of Pasteurella pestis cultivated on certain agar-containing medium. Compt. Rend. Acad. Sci. 235: 1441-1443, 1952.
- * Girard, Georges.
Sensitiveness of plague and pseudotuberculosis bacilli to bacteriophages of the coli-dysentery group. Ann. Inst. Pasteur. 69: 52-54, 1943.
- Girard, Georges
Simple technique for diagnosis of plague. Compt. Rend. Soc. Biol. 117: 601-603, 1934.
Trop. Dis. Bull. 32: 452, 1935.
- * Girard, Georges
Simplified technique for the diagnosis of plague bacilli post mortem. Bull. Soc. Path. Exot. 30: 240-252, 1937.
Trop. Dis. Bull. 34: 789, 1937.
- * Girard, Georges and Gallut, J.
On the latent phase in the culture of Pasteurella pestis in broth. Ann. Inst. Pasteur. 35: 372-376, 1953.
- * Girard, Georges; Neel, R.; and Chevallier, A.
Behavior of plague bacilli in an aerobic culture; practical application. Ann. Inst. Pasteur. 72: 862-867, 1946.
Biol. Abstr. #11778, 1948.
- * Girard, Georges; and Sandor, Georges
Nature of plague toxin. Compt. Rend. Acad. Sci. 224: 1078-1080, 1947.
Trop. Dis. Bull. 44: 900, 1947.
- Giuliani, S.
Examination of plague sputum. Bull. Porto Rico Med. Assoc. 17: 61-63, 1923.
- Golem, D. S. B.; and Örsan, K.
Biochemical differences in Turkish strains of Pasteurella pestis. Turk. Bull. Hyg. Exper. Biol. 12: 29-51, 1952. In French, p. 52-55. Excerpta Med. IV. #736, 1953.
- Gonzaga, A. G.
Cultivating plague bacilli from the blood. Brazil-Méd. 1: 69-73, 1922.
- * Goodner, K.; Bartell, P.; and Pannell, L.
Toxins of Pasteurella pestis. Fed. Proc. 11: 470, 1952.
- * Gratch, I.; Purulia, P. L.; and Martin, M. L.
Effect of sodium fluoracetate (1080) in poisoned rats on plague diagnostic procedures; preliminary report. Pub. Health Repts. 64: 339-342, 1949.
- * Gross, Bertram; and Bonnet, D. D.
Plague in the territory of Hawaii. II. Plague surveillance, Hamakua District, Island of Hawaii. Pub. Health Repts. 66: 1541-1549, 1951.

IV. *Pasteurella pestis*. Culture. Morphology.

- Gubarev, E.; and Lipatova, T.
Effect of certain anions and cations on growth of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 507-512, 1930. Biol. Abstr. #16081, 1934.
- Henriques, Athos.
Use of nitrous reaction in identification of plague bacilli. Hospital, Rio de Janeiro. 18: 123-124, 1940. Chem. Abstr. 35: 6279.
- * Herbert, D.
Studies on the nutrition of *Pasteurella pestis* and factors affecting the growth of isolated cells on an agar surface. Brit. J. Exper. Path. 30: 509-519, 1949.
- * Hills, G. M.; and Spurr, E. D.
The effect of temperature on the nutritional requirements of *Pasteurella pestis*. J. Gen. Microbiol. 5: 64-73, 1952.
- Hammelfarb, J. K.
Differential diagnosis between *Bacterium pestis* and *Bacillus pseudotuberculosis rodentium* with carbohydrate cultures. Vest. Mikrobiol. Epidemiol. 6: 32-35, 1927. Biol. Abstr. #15736, 1932.
- * Hammelfarb, J. K.
Differential diagnosis between the pest bacillus and *B. pseudotuberculosis rodentium* on carbohydrate medium. Zent. f. Bakt. Abt. I. 103: 39-41, 1927. Biol. Abstr. #11580, 1928.
- * Hammelfarb, J. K., and Skrotzky, E. W.
Differentiation between bacillus *pestis* and *B. pseudotuberculosis rodentium* on carbohydrate culture media. Zent. f. Bakt. Abt. I. 120: 196-199, 1931. Biol. Abstr. #4546, 1932.
- Issaly, A. S.; and De Issaly, I. S. M.
Contribution to the study of the classification of pasteurellae. Rev. Assoc. Bioquim. Argent. 15: 108-110, 1950.
- Jettmar, H. M.
Notes on the vitality of plague bacilli in stained smears. Natl. Med. J. China. 12: 1-8, 1926. Biol. Abstr. #9914, 1927. Trop. Dis. Bull. 24: 38, 1927.
- Joukov-Verejnikov, N.; and Fadeeva, T.
Immunological studies on plague. Bacteriology in plague. Vest. Mikro. Epidemiol. i Parazitol. 16: 54-63, 1937. English Summary.
- Joukov-Verejnikov, N.; and Fadeeva, T.
Immunology in plague. Bacteriolysis. Vest. Mikrobiol. Parazitol. i Epidemiol. 16: 63-65, 1937.
- Joukov-Verejnikov, N.; and Hworoszuhina, M.
Immunology of plague. A method of producing antiplague vaccines of the X B type. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 52-58, 1940. English summary. Biol. Abstr. #15017, 1941.
- Kellogg, W. H.
The pathology and bacteriology of bubonic plague. Trans. Med. Soc. Calif. p. 50-92, 1901.
- Kirschner, L.
Bile nutrient medium in the diagnosis of plague. Geneesk. Tijdschr. f. Nederl. Indie. 74: 1141-1159, 1934. Trop. Dis. Bull. 32: 452, 1935.
- * Kister.
Diagnosis of rat plague in Hamburg. Zent. f. Bakt. Abt. I. 117: 433-440, 1930. Trop. Dis. Bull. 28: 384, 1931.

IV. *Pasteurella pestis*. Culture. Morphology.

- Kitasato, S.
The bacillus of bubonic plague.
Wien Med. Bl. 17: 498, 1894.
- Kitasato, S.
The microbe of plague. Saitake
Gaku Zasshi, Tokyo. No. 13: 1-10,
1896-1897.
- * Kitasato, S.
On the plague bacillus.
Lancet. 2: 428-430, 1894.
- Klein, E.
Report on further observations
of types of *Bacillus pestis*. Rept.
Social Gov. Bd., London, 1903-1904.
33(Suppl): 368-387, 1905.
- * Knaysi, George; and Mudd, Stuart.
The internal structure of
certain bacteria as revealed by
the electron microscope. J. Bact.
45: 349-359, 1943.
- * Knothe, H.
The behavior of aerobic bacteria
in the fertilized chicken egg. II.
The behavior of staphylococci,
meningococci, streptococci, pneumo-
cocci, *Bacterium tularense*,
Pasteurella pestis and *Brucella*
abortus Bang in fertilized chicken
egg. Zent. f. Bakt. Abt. I.
158: 453-473, 1952.
- Konovalova, S. F.
Denitrification by cultures of
B. pestis and *B. pseudotuberculosis*
rodentium. Vest. Mikrobiol.
Epidemiol. i Parazitol. 9: 513-516,
1930.
Biol. Abstr. #16089, 1934.
- Korobkova, E. I.
Biology of plague bacilli.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 15: 163-184, 1936.
Trop. Dis. Bull. 34: 413, 1937.
- Korobkova, E. I.
Changes of hydrogen ion concentra-
tion and phenomena of reduction obser-
ved during development of *Bacillus*
pestis and *Bacillus pseudotuberculosis*.
Vest. Mikrobiol. Epidemiol. i Parazitol.
8: 435-457, 1929. French summary,
p. 484-486.
Trop. Dis. Bull. 27: 739, 1930.
- Korobkova, E. I.
Giant nucleated forms of plague
bacilli in secondary cultures and their
relation to bacteriophage. Vest.
Mikrobiol. Epidemiol. i Parazitol.
16: 18-25, 1938.
- Korobkova, E.
Hemolytic properties of *B. pestis*
and *B. pseudotuberculosis*. Vest.
Mikrobiol. Epidemiol. i Parazitol.
19: 3-18, 1940. Biol. Abstr. #15101,
1941.
- Korobkova, E.
Plague bacilli, yellow strain.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 19: 424-431, 1940.
- Korobkova, E.
Study of *B. pestis* and *B. pseudo-*
tuberculosis rodentium. Vest.
Mikrobiol. Epidemiol. i Parazitol.
8: 435-457, 1929. French summary,
p. 484-486.
Biol. Abstr. #13795, 1932.
- Korobkova, E., and Smirnov, V. P.
The antagonism of *B. coli* towards
B. pestis. Vest. Mikrobiol.
Epidemiol. i Parazitol.
17: 201-214, 1938.
Biol. Abstr. #1730, 1943.
- Kraynova, A. N.
Significance of rhamnose for
differentiation of plague bacilli
and *Bacillus pseudotuberculosis*
rodentium Pfeiffer. Vest.
Mikrobiol. Epidemiol. i Parazitol.
18: 91-101, 1940.
Chem. Abstr. 36: 2286, 1942.

IV. *Pasteurella pestis*. Culture. Morphology.

- * Kurauchi, K.
Differentiation of *B. pestis* from allied organisms by means of their biological properties on plague bacillus-like strain isolated from suslik; plague studies III. Kitasato Arch. Exper. Med. 8: 45-59, 1931.
- * Kurauchi, K.
Fermentation reactions of *B. pseudotuberculosis*, *P. pestis* and hemorrhagic septicemia group. Kitasato Arch. Exper. Med. 8: 89-98, 1931.
- Kuznetsova, V. I., and Dobrokhotova, N. D.
Diagnosis of plague in squirrels by means of Bordet-Gengou reaction. Vest. Mikrobiol. Epidemiol. i Parazitol. 1: 88-91, 1939.
- La Rosa, G.
The effects of bile on the plague bacillus. Giorn. di Batteriol. e Immunol. 5: 1763-1780, 1930.
Trop. Dis. Bull. 28: 390, 1931.
- * Leifson, E.
Post mortem diagnosis of plague. Bull. Soc. Path. Exot. 25: 399-404, 1932.
Trop. Dis. Bull. 29: 673, 1932.
- Lenskaya, G. N.
Morphological variety of *B. pseudotuberculosis rodentium* Pfeiffer and *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 254-263, 1928. English summary, p. 337-338.
Biol. Abstr. #12121, 1930.
Trop. Dis. Bull. 26: 641, 1929.
- Lenskaya, G. N.; Egoroff, A. N. et al.
Survival of *B. pestis* in perennial preservation on culture media. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 149-158, 1931.
Biol. Abstr. #16091, 1934.
- León, José Luis.
Preparation and study of culture media which permit differentiation between the organisms of the genera *Pasteurella* and *Salmonella*. Gaceta Vet., Buenos Aires. 8: 195-207, 1946.
Biol. Abstr. #17884, 1947.
- * Levine, H. B.; and Garber, E. D.
Detection of rough disassociants of *Pasteurella pestis* with tetrazolium chloride. J. Bact. 60: 508, 1950.
- Levinthal, W.
Difficulties in differential diagnosis of pseudotuberculosis and of plague in rats which infest ships. Zeitschr. f. Hyg. u. Infektionskr. 112: 433-435, 1931.
- * Liston, W. G.
On the plague. II. The etiology of plague. Brit. Med. J. 1: 950-954, 1924.
- * Lloyd, E. J.
Plague - past, present and future. J. Amer. Med. Assoc. 85: 729-731, 1925.
- Lugovaya, L. V., and Lebedeva, E. A.
Nucleus of *Bacillus pestis* and *Bacillus pseudotuberculosis rodentium* Pfeiffer. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 1-147, 1931.
Biol. Abstr. #9144, 1934.
- Lugovaya, L. V., and Lebedeva, E. A.
Research showing that *Bacterium pestis* and *Bacterium pseudotuberculosis rodentium* always possess a nucleus. Giorn. di Batteriol. e Immunol. 12: 1073-1081, 1934.
- Macchiavello, Atilio
Atypical variants of the plague bacillus from northeastern Brazil. Arquivos de Higiene, Rio de Janeiro. 11(2): 103-108, 1941.
Trop. Dis. Bull. 40: 48, 1943.

IV. *Pasteurella pestis*. Culture. Morphology.

Macchiavello, Atilio

Bacteriology of the cold inguinal bubo. Arquivos de Higiene, Rio de Janeiro. 11(2): 67-70, 1941.
Trop. Dis. Bull. 40: 46, 1943.

Macchiavello, Atilio.

Bacteriology of the multi-glandular plague. Arquivos de Higiene, Rio de Janeiro. 11(2): 71-72, 1941.
Trop. Dis. Bull. 40: 47, 1943.

Macchiavello, Atilio

Behavior of strains of *Pasteurella pestis* isolated from wild animals in northeast Brazil. Arquivos de Higiene, Rio de Janeiro. 12: 47-50, 1942.

Macchiavello, Atilio

General bacteriology of bubonic plague observed in northeastern Brazil. Arquivos de Higiene, Rio de Janeiro. 11: 53-65, 1941.
Trop. Dis. Bull. 40: 46, 1943.

Macchiavello, Atilio

Instructions for diagnosis, treatment and isolation of plague cases and for laboratory specimens. Bol. Oficina Sanitaria Panamericana. 24: 704-712, 1945.
Trop. Dis. Bull. 43: 647, 1946.

Macchiavello, Atilio

Study of the variability of the plague bacillus with special reference to morphology, colony characteristics, virulence, toxicity and biochemical properties. Arquivos de Higiene, Rio de Janeiro. 11(2): 73-102, 1941.
Trop. Dis. Bull. 40: 47, 1943.

Macchiavello, Atilio

Survival and virulence of Brazilian strains of *Pasteurella pestis* in symbiosis with fungi, micrococci, pneumococci, gram-negative bacilli, *Corynebacterium*, etc. and under tropical conditions. Arquivos de Higiene, Rio de Janeiro. 12: 23-32, 1942.

Macchiavello, Atilio

Viability and virulence of *P. pestis*. 4. Kept in cultures without subculture under conditions prevailing in the tropics. Arquivos de Higiene, Rio de Janeiro. 11(2): 133-141, 1941.
Trop. Dis. Bull. 40: 49, 1943.

Macchiavello, Atilio

Virulence of *Pasteurella pestis*; changes under various experimental conditions. Arquivos de Higiene, Rio de Janeiro. 12: 33-39, 1942.

Macchiavello, Atilio: and

Paracampo, H.

Survival and virulence of *Pasteurella pestis*; diagnostic value of bone marrow in animals in tropics. Arquivos de Higiene, Rio de Janeiro. 12: 41-46, 1942.

* McCoy, G. W.

The problem of plague in the United States. Amer. J. Hyg. 1: 182-191, 1921.

* McCoy, G. W.

The technique of the laboratory examination of rats for plague. Pub. Health Repts. 27: 1174-1187, 1912.

* McCrumb, F. R., Larson, A.; and Meyer, E. F.

The chemotherapy of experimental plague in the primate host. J. Infec. Dis. 92: 273-287, 1953.

Malta.

Report on the subject of laboratory investigation into cases of plague in the island. Zammit, Government Analyst. & Alcock, W. B. MS report.
Trop. Dis. Bull. 10: 283-285, 1917.

* Markl, J. G.

The bacteriological diagnosis of rat plague. Zent. f. Bakt. Abt. I. 67: 388-397, 1912.
Trop. Dis. Bull. 1: 555, 1913.

* Markl, J. G.

The question of mutation in plague bacilli. Zent. f. Bakt. Abt. I. 74: 529-540, 1914.
Trop. Dis. Bull. 5: 30, 1915.

Marras, F. M.

Observations and experiments on bubonic plague in British India. Ann. Med. Navale e Coloniale. 2: 301-335, 1929.
Biol. Abstr. #20720, 1931.

Marras, F. M.

A rapid method for the diagnosis of plague. Indian J. Med. Res. 14: 287-290, 1926.
Biol. Abstr. #14424, 1929.
Trop. Dis. Bull. 24: 456, 1927.

Maruyama, Y.

Addendum to the report on the morphology of plague bacilli, their catalase action and reducing power. Taiwan Igakkai Zasshi. No. 248: 1-4, 1925.
Trop. Dis. Bull. 23: 629, 1926.

Matten, E. d.

Frequente disturbances of the respiratory apparatus and the bacteriological findings in catarrhal secretions in plague in man. Atti Accad. Gioenia Sci. Nat. Catania. 15(Mem. 5): 1-5, 1927.
Biol. Abstr. #19571, 1932.

Matumoto, M.

Studies on *Pasteurella pestis*. Biochemistry with special reference to fermentation reactions. Jap. Med. J. 1: 484-493, 1948.
Trop. Dis. Bull. 47: 325, 1950.

Matumoto, M.

Studies on *Pasteurella pestis*. II. On the relationship between the fermentation reaction of glycerine by the strains of *Pasteurella pestis* and their geographical distribution. Jap. J. Exper. Med. 20: 285-294, 1949.
Biol. Abstr. #1361, 1952.
Trop. Dis. Bull. 48: 36, 1951.

Metchnikoff, E.

On bubonic plague. Ann. Inst. Pasteur. 11: 737-752, 1897.

* Meyer, K. F.

Plague. Med. Clinics North America. 27: 745-765, 1943.

* Meyer, K. F., and Batchelder, A. C.

Selective medium in the diagnosis of rodent plague. Plague studies I. J. Infec. Dis. 39: 370-385, 1926.

Michaletta, E.

The diagnosis of murine plague. Ann. di Med. Nav. e Colon. 38: 677-681, 1932.

Mitchell, J. A., Parry, J. H., and Ingram, A.

A plague problem in South Africa: historical, bacteriological and entomological studies. Publ. South African Inst. Med. Res. 3: 25-256, 1927.
Biol. Abstr. #6411, 1928.

Molodtsova, P.

Atypical forms of colonies of *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 285-283, 1928. French summary, p. 339.
Biol. Abstr. #12127, 1930.

- * Morales, O. P.
Bacteriology of plague; a review. Puerto Rico J. Pub. Health & Trop. Med. 11: 553-583, 1936.
- Morison, J. Naidu, B.P.B.: and Avari, C. R.
The production of immunity against plague by vaccine. II. Agar cultures. Indian J. Med. Res. 12: 321-326, 1924.
Trop. Dis. Bull. 22: 331, 1925.
- Naidu, B.P.B., and Jung, J. S.
Nutrient broth now used for culture of *Bacillus pestis* and its hydrogen ion concentration. Indian J. Med. Res. 15: 135-139, 1927.
Biol. Abstr. #13011, 1928.
Trop. Dis. Bull. 24: 939, 1927.
- Naidu, B.P.B., and Jung, J. S.
Production of alkalinity by *B. pestis* in broth and effect of this alkalinity on toxicity and potency of the prophylactic. Indian J. Med. Res. 15: 335-341, 1927.
Trop. Dis. Bull. 25: 320, 1928.
- Navarro, C. A.
Differential diagnosis of bubonic plague. Bull. Panamer. Sanit. Bur. 12: 244-245, 1933.
- Nakanishi, S. M.
New differential agar medium for *B. pestis* and *B. pseudotuberculosis* rodentium. Proc. 1st. Compt. Rend. Premier Congr. Antipest. URSS. 1927-1928, 30, 1928.
Biol. Abstr. #2493, 1933.
- Nakanishi, S. M.
A new principle in the composition of colored differential media. Vest. Mikrobiol. Epidemiol. i Parazit. 6: 230-232, 1927.
Biol. Abstr. #20697, 1929.
- Ohoto, O.
Bacillus pestis in blood and its cultivation. Japan Med. World. 3: 136-137, 1923.
- * Ohoto, O.
Bacillus pestis in blood, bile and urine. J. Infec. Dis. 34: 29, 294, 1924.
- Otake, Yoshio.
Influence of *Bacillus pestis* on hydrogen ion concentration of culture medium and its carbohydrate splitting action. Japan Med. World. 9(2): 54-55, 1929.
Trop. Dis. Bull. 27: 8, 1930.
- * P An, H. S.; Tchan, Y. T.; and Pochon, J.
A cytological study of the effect of specific bacteriophage on *Pasteurella pestis*. I. Morphological changes in nuclear apparatus. Ann. Inst. Pasteur. 76: 468-470, 1949.
Trop. Dis. Bull. 46: 1029, 1949.
- * P An, H. S.; Tchan, Y. T.; and Pochon, J.
The cytological changes produced in *Pasteurella pestis* by specific bacteriophage. II. A study of the cell when stained by Robinow's method. Ann. Inst. Pasteur. 76: 291-292, 1950.
Trop. Dis. Bull. 47: 347, 1950.
- Panas, J.
Esculin test in recognition of plague bacilli. Polska Tygodnik Lek. 1: 112, 1122, 1946.
- Pastucha, G. L. and Panja, G.
"Swarming colonies" of *Pasteurella pseudotuberculosis*. Indian Med. Gaz. 77: 27, 1942.
- Petragnani, G.
Diagnosis of plague in rats. Bull. Off. Internat. d. Hyg. Publ. 29: 2522-2525, 1937.
Trop. Dis. Bull. 35: 756, 1938.

IV. *Pasteurella pestis*. Culture. Morphology.

- * Petrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. v. 3. London, HMSO, 1929. p. 137-224.
- Pirie, J. H. H.
Miscellaneous bacteriological observations. Publ. South African Inst. Med. Res. 3: 207-221, 1927.
- Pirie, J. H. H.
Plague studies. I. Bacteriophage in the prophylaxis and treatment of experimental plague. II. Microbic dissociation of *B. pestis* and its importance in connection with the preparation of plague vaccine and serum. III. A veld rodent epizootic due to *Pasteurella* other than *Pasteurella pestis*. Publ. South African Institutes Med. Res. 4: 191-230, 1929.
Biol. Abstr. #20743, 1931.
Trop. Dis. Bull. 27: 338, 1930.
- Plague bacillus. South African Med. J. 26: 65-66, 1952.
- Pokrowskaya, M.
Culture of avirulent strain of *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 3-15, 1934.
- * Pokrowskaya, M.
Cytological observations on dissociation process of *B. pestis*. Zent. f. Bakt. Abt. I. 119: 353-361, 1931.
- * Pollitzer, R.
Bacteriology. In: Plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Serv., 1936. p. 56-91.
- * Pollitzer, R.
Plague studies. 2. The plague bacillus. Bull. World Health Organization. 5: 73-108, 1952.
- * Pollitzer, R.
Plague studies. 5. Methods of laboratory diagnosis. Bull. World Health Organization. 6: 317-350, 1952.
- * Pollitzer, R.
Practical laboratory diagnosis. In: Plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936. pl. 167-194.
- Pons, R.
Action of plague bacillus on principle carbohydrates. Ann. Inst. Pasteur. 39: 884-887, 1925.
Trop. Dis. Bull. 23: 184, 1926.
- Preis, Hugo.
Two peculiar varieties of the plague bacillus. Etresito. 43: 188-204, 1926.
Biol. Abstr. #2256, 1928.
- * Preis, Hugo
Two remarkable variants of the plague bacillus. Zent. f. Bakt. Abt. I. 104: 65-77, 1927.
Trop. Dis. Bull. 24: 457, 1927.
- Pulvirenti, G. B.
Production of hydrogen sulphide by bacteria. Riv. Biol. 41: 503-509, 1949.
- Rabinovsky, B.
Comparative study of R and S forms of *B. pestis* and *B. pseudotuberculosis* in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 369-376, 1930.
Biol. Abstr. #16101, 1934.

- * Rao, M. S.
Further studies on the nutrition of the plague bacillus: the role of haematin and other compounds. Indian J. Med. Res. 27: 833-846, 1940.
- * Rao, M. S.
Nutritional requirements of plague bacillus. Indian J. Med. Res. 27: 75-89, 1939.
- * Rao, M. S.
Oxidations effected by the plague bacillus. Indian J. Med. Res. 27: 617-626, 1940.
- * Revo, M. V. and Nikolskii, V. V.
The vaccinating properties of the glucidolipidic complex produced by *Pasteurella* cultures. Znur. Mikrobiol. Epidemiol. i Immunobiol. No. 1-2: 75-79, 1942. Biol.
- * Reynes, V.
An atypical strain of plague bacillus. Ann. Inst. Pasteur. 18: 223-29, 1930.
- * Rickhammar, Morris, James H. A., and Elberg, S. S.
Studies on the nutrition and physiology of *Pasteurella pestis*. I. A chemically defined culture medium for *Pasteurella pestis*. J. Bact. 55: 735-794, 1942.
- Rowland, Sydney
The influence of cultivation in serum containing media upon the virulence and immunizing properties of the plague bacillus. J. Hyg. Plague Suppl. 3. p. 403-411, 1914. Trop. Dis. Bull. 3: 205, 1914.
- Rowland, Sydney
The influence of the medium in which *B. pestis* is propagated upon its virulence. J. Hyg. Plague Suppl. 3. p. 440-446, 1914. Trop. Dis. Bull. 3: 206, 1914.
- Rowland, Sydney
The morphology of the plague bacillus. J. Hyg. Plague Suppl. 3. p. 418-422, 1913-1914. Trop. Dis. Bull. 3: 206, 1914.
- Russo, Egidio
Contributions to the study of fermentation of bacteria of genus "*Pasteurella*". Hospital, Rio de Janeiro. 16: 57-66, 1939. Biol. Abstr. 18: 16519, 1944.
- Russo, Egidio
Fermentative action of bacteria of the *Pasteurella* group. Hospital, Rio de Janeiro. 17: 47-51, 1940. Biol. Abstr. #2722, 1941. Trop. Dis. Bull. 37: 422, 1940.
- Samsonov, F. B.
Effect of certain histolysates on growth of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 309-314, 1935. Trop. Dis. Bull. 33: 375, 1936.
- * Savino, Enrique, Aldao, A., and Anchezar, Benjamin.
General characters of the genus *Pasteurella*. Rev. Inst. Bact. Buenos Aires. 9: 110-121, 1939. Biol. Abstr. #4313, 1941.
- * Savino, Enrique, Villazon, N. M., and Anchezar, Benjamin.
Presence of *Pasteurella* in gray rats; importance in the diagnosis of plague. Rev. Inst. Bact. Buenos Aires. 9: 146-148, 1939. Biol. Abstr. #2662, 1941. Trop. Dis. Bull. 37: 422, 1940.

IV. *Pasteurella pestis*. Culture. Morphology.

Scanga, F.

The mode of reproduction of *P. pestis*. Rend. Ist. Superiore Sanita. 14: 122-132, 1951.
Biol. Abstr. #34983, 1951.

* Schoebl, Otto

Bacteriological observations made during the outbreak of plague in Manila in 1912. Philippine J. Sci. 8B: 409-428, 1913.

* Schütze, Harry and Hassanein, M.A.

Oxygen requirements of *B. pestis* and *Pasteurella* strains. Brit. J. Exper. Pathol. 10: 204-209, 1929.
Biol. Abstr. #22150, 1930.
Trop. Dis. Bull. 27: 3, 1930.

Seal, S. C.

Casein hydrolysate agar: a new solid medium for the growth of *Pasteurella pestis* and allied organisms. Ann. Biochem. & Exper. Med. Calcutta. 10: 99-102, 1950.
Trop. Dis. Bull. 42: 985, 1951.

Seal, S. C. and Moberg, S. P.

Hydrolysate of casein as a fluid medium for the growth of *Pasteurella pestis*. Ann. Biochem. & Exper. Med. Calcutta. 11: 77-80, 1950.
Trop. Dis. Bull. 42: 987, 1951.

Semenov, A. G. and K. G.

Secretion of guinea pigs experimentally infected with plague. Congr. Rech. Premier Congr. Ann. pees URSS 1927: 346-357, 1928.
Biol. Abstr. #28255, 1930.

Shataev, N. Y. and Plechkova, Z. P.

Metachromatic granulation of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 73-8, 1938.

Smith, F. P. G.

Laboratory notes on plague in Kenya. J. Hyg. 29: 201-218, 1929.
Biol. Abstr. #14586, 1931.

Smirnov, E. I.

Value of salt media in differential diagnosis of bubonic bacilli and pseudotuberculosis in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 176-182, 1928.
Biol. Abstr. #19117, 1930.

* Smith, L. D. and Phillips, R. L.

Growth of *Pasteurella pestis* on casein digest medium. J. Franklin Inst. 235: 536-545, 1943.

* Sokhey, S. S.

The capsule of the plague bacillus. J. Path. & Bact. 51: 97-103, 1940.

* Sokhey, S. S.

Experimental studies in plague. Part II. The solid medium of choice and the optimal temperature of incubation for the growth of the plague bacillus. Indian J. Med. Res. 37: 321-329, 1939.

* Sokhey, S. S.

Experimental studies in plague. Part III. A method for determining the number of viable plague organisms in broth cultures. Indian J. Med. Res. 47: 331-340, 1939.

* Sokhey, S. S.

The lag phase in the growth curve of *Pasteurella pestis*. Bull. World Health Organization. 6: 65-72, 1952.

* Sokhey, S. S. and Habba, M. K.

Optimum and limiting hydrogen ion concentrations for the growth of the plague bacillus in broth. J. Bact. 46: 33-37, 1943.

Sokhey, S. S. and Habba, M. K.

Optimum and limiting temperatures for the growth of the plague bacillus in broth. 46: 25-32, 1943.

- * Sokhey, S. S.; Habibi, M. K.; and Bharucha, K. H.
Hydrolysate of casein for the preparation of plague and cholera vaccines. Bull. World Health Organization. 3: 25-31, 1950.
- Stamatini, N., and Vlădeanu, M.
Pasteurella, sensitivity to bacteriostatic and lytic action of penicillin. Arch. Roumaines Path. Exper. et Microbiol. 15: 250-255, 1948.
Exper. Med. IV. #5489, 1949.
- * Strong, R. P., and Teague, Oscar
Studies on pneumonic plague and plague immunization. VI. Bacteriology. Philippine J. Sci. 7B: 187-202, 1912.
- * Swellengrebel, N. H., and Hassen, H. W.
Bacteria causing difficulties in the diagnosis of rat plague. Zentr. f. Bakt. Abt. I. 75: 456-466, 1913.
Trop. Dis. Bull. 6: 413, 1915.
- Tobias, Y. I.
Characteristics of *Pasteurella pestis* starting from a single cell. Bull. San. Path. Ex. 42: 39-41, 1949.
Bull. Abstr. #1207, 1950.
Trop. Dis. Bull. 19: 13, 1949.
- Tumanski, V. M.
Attempts at the application of the method of specific suppression of *B. proteus vulgaris* in the examination of plague material. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 47-49, 1937.
Biol. Abstr. #10291, 1938.
- Tumanski, V. M.
Influence of *Proteus vulgaris* on *Pasteurella pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 20-27, 1938.
Trop. Dis. Bull. 38: 364, 1939.
- Tumanski, V. M.
Value of medium containing rhamnose for cultural differentiation of plague bacillus and *Bacillus pseudotuberculosis rodentium*. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 82-88, 1940.
Chem. Abstr. 36: 2286, 1942.
- Tumanski, V. M., and Yashchuk, A. P.
On the application of plague bacteriophage in the diagnosis of *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 232-237, 1938.
Biol. Abstr. #5649, 1943.
- * Uriarte, Leopoldo; and Villazon, N. M.
Coccobacillus similar to plague bacillus in rats of Buenos Aires. Rev. d. Inst. Bact. 7: 91-97, 1935.
- Uriarte, Leopoldo; and Villazon, N. M.
Culture medium for plague bacilli. Rev. Asoc. Med. Argent. 37: 231-233, 1924.
- Uriarte, Leopoldo; and Villazon, N. M.
Differential culture medium for plague bacillus. Compt. Rend. Soc. Biol. 91: 1041-1043, 1924.
Trop. Dis. Bull. 22: 322, 1925.
- * Uriarte, Leopoldo; and Villazon, N. M.
Differential culture of plague bacillus. Rev. Inst. Bact. Buenos Aires. 7: 287-295, 1935.
Trop. Dis. Bull. 33: 370, 1936.
- * Uriarte, Leopoldo; Villazon, N. M.; and Anchezar, Benjamin.
Examination of rodents for plague. Rev. Inst. Bact. Buenos Aires. 5: 15, 1935.
Trop. Dis. Bull. 33: 370, 1936.
- * Vay, Franz
Granule-like formation in plague bacilli. Zentr. f. Bakt. Abt. I. 52: 305-318, 1909.

IV. *Pasteurella pestis*. Culture. Morphology.

- * Villazon, N. M.
Virulence of the plague bacillus in media with and without NaCl. Rev. Inst. Bact. Buenos Aires. 4: 385-392, 1926.
Biol. Abstr. #12541, 1927.
- * Wade, H. W.
Carbohydrate fermentation by *Bacillus pestis*, comparing certain American and Oriental strains. Philippine J. Sci. 11B: 159-182, 1916.
- Wade, H. W.
On the bacteriology and pathology of bubonic plague. New Orleans Med. & Surg. J. 67: 419-426, 1914-1915.
- * Wats, R. C., and Puduvai, T. K.
A study of some virulent and avirulent strains of *Pasteurella pestis*. Indian J. Med. Res. 27: 323-331, 1940.
- * Wei, W. P., Tonan, Y. T., and Pothon, J.
Interpretation of bipolar staining in some pathogenic bacteria. Ann. Inst. Pasteur. 15: 37-39, 1943.
- Whitby, W. B.
The bacteriological examination of a plague case, with notes on the capsular structures formed in nutrient agar by some bacteria. J. Infect. Dis. 2: 577-588, 1908.
- * Williams, C. L.
Diagnosis and detection of rodent plague. Amer. J. Pub. Health. 10: 880-887, 1920.
- * Wilson, E. H.
Some observations on the biology of the bacillus of the pest. J. Med. Res. 6: 53-58, 1901.
- * Won, W. D.
The production of "giant" cells of *Pasteurella pestis* by treatment with campher. J. Bact. 60: 102-104, 1950.
- * Wright, H. D.
Cultivation of plague bacillus. J. Path. & Bact. 39: 381-390, 1934.
- Yao, H.; Yoshino, K.; and Ikegami, M.
Studies on the semi-synthetic media for the *Pasteurella pestis*. 1st report. On the nutritional requirement of *Pasteurella pestis*. Jap. Med. J. 3(1): 11-15, 1950.
Trop. Dis. Bull. 48: 629, 1951.
- Yashchuk, A. P.
Choice of optimal culture media for plague bacilli. Field's medium and its application. Vest. Mikrobiol. Epidemiol. Parazit. 18: 34-42, 1940.
- Zabotny, D.
Characteristics of the strain of the bacilli isolated during the epidemic. Rept. Internat. Plague Conf. 1911. p. 40-43, 1912.
- Addendum
- * Okamoto, Kokiichi
On cultivation of *Bac. pestis* in the tube of glucose agar containing the infusion of animal organ. Jap. J. Med. Sci. & Biol. 6: 59-63, 1953.

BIBLIOGRAPHY ON PLAGUE AND PASTEURURELLA PESTIS.

V. PASTEURURELLA PESTIS. SEROLOGY. ANTIGENIC STRUCTURE.

- * Abramova, S. G.
The opsonic index as a test of immunity to *P. pestis*. Zhur. Mikrobiol. Epidemiol. i Immunobiol. No. 10-11: 72-76, 1933.
Trop. Dis. Bull. 42: 642-643, 1945.
- * Amies, C. R.
The envelope substance of *Pasteurella pestis*. Brit. J. Exper. Path. 32: 259-273, 1951.
- * Baker, E.E., Sommer, H., Foster, L.E., Meyer, E., and Meyer, K. F.
Antigenic structure of *Pasteurella pestis* and the isolation of a crystalline antigen. Proc. Soc. Exper. Biol. Med. 64: 139-141, 1947.
- * Baker, E.E., Sommer, H., Foster, L.E., Meyer, E., and Meyer, K. F.
Studies on immunization against plague. I. The isolation and characterization of the soluble antigen of *Pasteurella pestis*. J. Immunol. 54: 139-147, 1942.
- * Batchelor, A.
Preparation of opsonic sera and effect of agglutination test with *Pasteurella pestis* mixed with formaldehyde. J. Intern. Dis. 44: 403-407, 1929.
- Bazant, L.
New type of precipitating antigen for serodiagnosis of bubonic plague. Brit. J. Path. Bact. Sect. Trop. 5: 206-212, 1932.
- Berlin, A. L.
Serum agglutination reaction with plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 10-53, 1930. German summary p. 127-128.
Trop. Dis. Bull. 28: 392, 1931.
- Berlin, A. L.
Significance of thermo-precipitation reaction in investigation of plague epizootics. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 54-59, 1930.
Biol. Abstr. #16472, 1932.
- * Berlin, H.
Serodiagnosis of plague by means of Ascoli's precipitation method. Zent. f. Bakt. Abt. I. 75: 467-485, 1915.
Trop. Dis. Bull. 7: 178, 1916.
- * Bhatnagar, S. S.
Bacteriological studies on *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. II. The serology of *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. Indian J. Med. Res. 28: 1-42, 1940.
Bombay: Haffkine Institute.
Report of the Haffkine Institute for the year 1939. Studies on plague. p. 3-43.
Trop. Dis. Bull. 39: 300-301, 1942.
- Bord, G. G., and Downes, Cora M.
Antigenic studies on the genus *Pasteurella*. Trans. Kansas Acad. Sci. 38: 87-92, 1935.
Biol. Abstr. #21659, 1936.
- Bouquet, A., and Dugardin-Béaumont, E.
Relation of plague bacillus to *Bacillus pseudotuberculosis* of rodents experiments. Compt. Rend. Soc. Biol. 100: 625-627, 1929.
Trop. Dis. Bull. 26: 639, 1929.

V. *Pasteurella pestis*. Serology. Antigenic structure.

- * Brooks, R. St. J.
The opsonic index in plague vaccination. *Brit. Med. J.* 2: 1098-1099, 1912.
- Brooks, H. St. J.
The opsonic index in plague vaccination. *J. Hyg. Plague Suppl.* 2. p. 373-382, 1912.
Trop. Dis. Bull. 1: 546, 1913.
- * Chen, T. H.
Studies on immunization against plague. IV. The method of nemagglutination test and some observations on the antigen. *J. Immunol.* 69: 587-596, 1952.
- * Chex, T. H., Qian, S. F. and Meyer, K. F.
Studies on immunization against plague. II. The complement fixation test. *J. Immunol.* 63: 147-152, 1952.
- Cherkasova, K. I.
Improvement in diagnosis of plague. *Zhur. Mikrobiol.* No. 12, 90-92, 1945.
- Colichon, E.
Plague bacilli: pheromone similar to hemolysins in plaques as differential characteristic. *Rev. Med. Parana.* 14: 117-126, 1942.
- Consoli, Nicola and P. ...
Francesco.
Persistence of antiseroprecipitins in preserved human plague organs. *Atti. Accad. Scienze Ser. Nat. Catania.* 15(4): 1-3, 1927.
Biol. Abstr. #16479, 1932.
- De Smidt, F. P. G.
Bacillus pestis: agglutination and absorption tests. *Kenya & East African Med. J.* 4: 337-347, 1928.
Trop. Dis. Bull. 25: 674, 1928.
- Devignat, R.
An initial agglutination reaction between pestis antigen adsorbed on collodion and its antibodies and vice versa. *Rev. d'Immun.* 15: 177-181, 1951.
- Devignat, R.
A quantitative technique for rapid agglutination of *Pasteurella pestis*. *Rev. d'Immun.* 15: 173-176, 1951.
- * Dieudonne, A. and Otto, R.
Pest. In: *Handbuch der pathogenen Mikroorganismen*, by W. Kolle, R. Kraus, and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.
- Doell, A. and Warner, Ch.
The diagnosis of plague infection in rats by means of the thermoprecipitation method. *Zeitschr. f. Hyg. u. Infektionsk.* 34: 67-80, 1917.
Trop. Dis. Bull. 12: 412, 1918.
- * Ebersson, Frederick.
Nature of plague proteotoxins. *J. Infect. Dis.* 21: 56-61, 1917.
- * Ebersson, Frederick.
Plague poisons and virulence. *J. Infect. Dis.* 20: 180-184, 1917.
- Faddeeva, T. D.
Serologic interrelationships between various strains of plague bacilli and pseudotuberculosis bacteria. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 18: 44-79, 1940.
- Favarel, R.
Agglutination of *Pasteurella pestis* by serum of patients with bubonic and pneumonic plague. *Bull. Soc. Path. Exot.* 42: 335-338, 1949.
Trop. Dis. Bull. 47: 236, 1950.

Fedoroff, V. N.

Noble's quick agglutination test for plague bacillus. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 192-193, 1929.

Galeotti.

Prophylactic inoculation with nucleo-proteid. Rept. Internat. Plague Conf., 1911. p. 99 101, 1912.

* Girard, Georges.

Absence of glucolipidic antigen in plague bacillus and pseudo tuberculosis bacillus of rodents. Compt. Rend. Soc. Biol. 135: 1577-1579, 1941.

* Girard, Georges, and Sander, Georges.

Nature of plague toxin. Compt. Rend. Acad. Sci. 224: 1078-1080, 1947.

Grisval, S. D. S.; and Dalal, N. P.

On bacillus pestis, new techniques in serology. Indian J. Med. Res. 21: 283-294, 1933. Biol. Abstr. #4107, 1936. Trop. Dis. Bull. 31: 397, 1934.

Grokhov, V. S.

Agglutinating properties of serum of Siberian marmots in enzootic plague areas. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 47-50, 1934.

Hashimoto, Minoru, and

Kawachi, Kazuo.

Precipitation reaction of the bacterial component of *P. pestis*. Saikingaku Zasshi. 34: 8-23, 1940. Biol. Abstr. #16315, 1940.

Henriques, Atina.

Laboratory procedure in plague prophylaxis. Bull. Panamer. Sanit. Bur. 21: 227-230, 1942. Trop. Dis. Bull. 39: 55, 1942.

* Holman, James; and Swineford, Oscar.

Studies in bacterial allergy. II. Preparation of crude nucleoprotein and polysaccharide fractions of bacteria. J. Allergy. 20: 418-419, 1949.

Ishiwara, K.; Kakinuma, R.; and Otahara, T.

Thermoprecipitin reaction of animals dead of plague. Tokyo Iji Shinhwa. No. 2159: 113-119, 1920. Trop. Dis. Bull. 16: 432, 1920.

* Jawetz, E., and Meyer, K. F.

Studies on plague immunity in experimental animals. I. Protective and antitoxic antibodies in the serum of actively immunized animals. J. Immunol. 49: 1-14, 1944.

* Jawetz, E.; and Meyer, K. F.

Studies on plague immunity in experimental animals. II. Some factors of the immunity mechanism in bubonic plague. J. Immunol. 49: 15-30, 1944.

Jeltrava, E.

Serodiagnosis of plague. Rev. de Med. 38: 383-402, 1921.

Jukov Veretjokov, N., and Lipatova, T.

Immunological studies on plague. 1. The comparative value of antiplague sera in the connection with the study of the significance of *S. pestis* fractions in the pathogenicity of plague by means of Schwarzman's phenomenon. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 257-260, 1933. Trop. Dis. Bull. 31: 886, 1934.

Kasuga, T.

Diagnosis of plague carrier rats by means of anti-envelope plague precipitin serum. II. A study on the specificity of plague precipitation reaction. Saikingaku Zasshi. 518: 57-63, 1933. Biol. Abstr. #13441, 1939.

V. *Pasteurella pestis*. Serology. Antigenic structure.

Kasuga, T.

On the precipitation of the anti-envelope serum. A study of the plague precipitin specificity. Saikingaku Zasshi. 518: 39-56, 1939. Biol. Abstr. #13440, 1939.

Khvorostukhina, M. M.

Application of flocculation reaction in titration of antiplague serum. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 29-34, 1934.

Ki, Kyushuku

Analysis of the envelope antigen and antibody of *Pasteurella pestis*. A study on the antigen of *Pasteurella pestis*. Saikingaku Zasshi. 544: 26-41, 1941. Biol. Abstr. #1587, 1942.

* Kitano, T. and Sukegawa, K.

On sensitized plague vaccine and its practical application. Kitano Arch. Exper. Med. 2: 57-86, 1948.

Kling, C. and Desset, S.

Agglutination of plague bacilli. Upsala Lakaref. Förel. 26 (Häft 5-6 No. 37): 1-22, 1921.

* Korobkova, E. I.

Antiphagocytic activity of anti-plague serum. Zhur. Mikrobiol. Epidemiol. i Immunobiol. No. 10-11: 43-53, 1945.

Korobkova, E.

Hemolytic properties of *B. pestis* and *B. pseudotuberculosis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 5-13, 1940. Biol. Abstr. #55102, 1941.

Korobkova, E. I., Favorisova, B. Y., and Kraynova, A. N.

Significance of serologic reactions in diagnosis of immunity to plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 72-86, 1939. Trop. Dis. Bull. 36: 367, 1939.

* Larson, C. L.; Philip, C. B.;

Wicht, W. C.; and Hughes, L.

Precipitin reactions with soluble antigens from suspensions of *Pasteurella pestis* or from tissues of animals dead of plague. J. Immunol. 67: 289-298, 1951.

* Lazarus, A. S.; and Gunnison, J. B.

Action of *Pasteurella pestis* bacteriophage on strains of *Pasteurella*, *Salmonella* and *Shigella*. J. Bact. 53: 705-714, 1947.

Lipatova, T.

Thermoprecipitation reaction and elaboration of method for obtaining specific precipitating plague sera. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 201-206, 1934. Trop. Dis. Bull. 32: 454, 1935.

* Madison, R. R.

Fibrinolytic specificity of *B. pestis*. Proc. Soc. Exper. Biol. Med. 34: 301-302, 1936. Biol. Abstr. #6334, 1937.

Maestre, R. H., Avar, F. B. C. R., and Nardin, B. P. B.

Passive hemagglutination power of blood of rats as measure of their immunity to plague. Indian J. Med. Res. 15: 121-129, 1925. Trop. Dis. Bull. 23: 183, 1926.

Malta.

Report on the subject of laboratory investigation into cases of plague in the island. T. Zammit and M. B. Alcock. MS report. Trop. Dis. Bull. 10: 233-235, 1917.

* Mark, J. G.

Acid agglutination in plague. Zent. f. Bakt. Abt. I. 77: 102-108, 1915. Trop. Dis. Bull. 7: 178, 1916.

Marras, F. M.

The value of the thermoprecipitin reaction in the diagnosis of rats putrefied and dead of plague. Indian J. Med. Res. 14: 281-285, 1926.

Biol. Abstr. #17842, 1928.

Trop. Dis. Bull. 24: 456, 1927.

Matsuyama, T.

Relation between the changes in the leucocyte picture in rabbits inoculated with plague bacilli and the formation of antibodies. Taiwan Igakkaï Zasshi. No. 243: 14, 1925. Trop. Dis. Bull. 23: 184, 1926.

* Meyer, K. F.

Immunity in plague - a critical consideration of some recent studies. J. Immun. 64: 139-160, 1950.

* Meyer, K. F.

The prevention of plague in the light of newer knowledge. Ann. N.Y. Acad. Sci. 48: 429-457, 1946.

Meyer, K. F. and Ficker, I. E.

Measurements of protective serum antibodies in mice. Mice inoculated with plague prophylactics. Stanford Med. Bull. 1: 72-73, 1948.

* Meyer, K. F., Ficker, I. E.

Ficker, E. E., Smith, H. and Larson, A.

Experimental approach to anti-plague vaccination with dead, virulent and living attenuated plague bacilli. Fifth Internat. Congr. Trop. Med. & Malaria. 1: 264-274, 1948.

Missiroli, Alberto

The thermoprecipitin reaction in the diagnosis of plague.

Patologica. 6: 331-332, 1915.

Trop. Dis. Bull. 5: 24-25, 1915.

Martin, S. V.

Immunology of plague; complement binding reaction with antiplague sera. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 40-52, 1938. Biol. Abstr. #4987, 1940.

* Morales, O. P.

Bacteriology of plague; a review. Puerto Rico J. Pub. Health & Trop. Med. 11: 553-583, 1936.

* Naidu, B. P. B.; Mackie, F. P.;

and Brist, D. P. H.

Serum therapy of plague. Lancet. 221: 893-897, 1931.

Panjan, G. and Gupta, S. K.

Diagnosis of human bubonic plague by agglutination test. Indian Med. Gaz. 84: 383-384, 1949. Biol. Abstr. #24297, 1950. Trop. Dis. Bull. 47: 355, 1950.

Pargola, M.

Thermoprecipitation in postmortem diagnosis of plague. Policlinico, Sez. Med. 29: 610-614, 1922.

* Petrie, G. F.

Bacillus pestis. In Great Britain Medical Research Council. A system of bacteriology in relation to medicine. London, HMSO, 1929. p. 224.

* Piras, L.

The precipitation reaction in the diagnosis of plague. Zent. f. Baktr. Abt. J. 11: 69-80, 1913.

Porte, J. H. H. and Grasset, E.

A comparison of the antigenic qualities of certain strains of avirulent *B. pestis*. South African Med. J. 15: 275-276, 1941.

Biol. Abstr. #7342, 1942.

Trop. Dis. Bull. 39: 311, 1942.

Podkopaev, V. P.

Effect of long storage on the titer of antiplague serum. Vest. Sovremennoi Veterinari. 7: 217-218, 1928. Biol. Abstr. #28451, 1930.

* Pokrovskaya, M.

Dissociation of *Bacillus pseudotuberculosis rodentium*. Zent. f. Bakt. Abt. B. 116: 304-317, 1930. Biol. Abstr. #4902, 1931.

* Pollitzer, R.

Immunology. In: Plague, a manual for medical and public health workers, by Lien Ten Wu et al. Shanghai National Quarantine Service 1936. p. 92-138.

Pollitzer, R.

Plague studies. 3. Problems in immunology. Bull. World Health Organization. 5: 165-226, 1952.

Polysaccharide vaccine.

Amer. Pract. Pharmacist.

13: 1013-1014, 1947.

Biol. Abstr. #21357, 1948.

* Foss, R.

Post mortem diagnosis of tubercle plague in man and animals. Bull. Soc. Path. Exot. 19: 405-407, 1926.

Foss, R. and Auvier, M.

Experimental studies on lipid and aqueous plague vaccine. Negative phase and stimulation of infection by vaccination. Ann. de Méd. et de Pharm. Colon. 31: 5-24, 1933. Trop. Dis. Bull. 31: 34, 1934.

* Foss, R. and Dureau, C.

Existence of a transmissible lytic factor in the tube of a convalescent of plague, presence in the intestines. Compt. Rend. Acad. Sci. 194: 1399-1400, 1932. Biol. Abstr. #3778, 1933.

Prado Junior, F.

Laboratory services in the prophylaxis of plague in São Paulo. Bull. Panamer. Sanit. Bur. 19: 971-978, 1940.

Prado Junior, F.

Laboratory services in the prophylaxis of plague in São Paulo. Brasil-Méd. 54: 49-55, 1940.

Ramon, G.

Determination of antigenic value of toxin and toxoid of *Preisz-Nocard bacilli* by flocculation method. Compt. Rend. Soc. Biol. 136: 754-755, 1942.

* Revot, M. V. and Nikolskii, V. V.

The vaccinating properties of the glucidolipidic complex produced by *Pasteurella* cultures. Zhur. Mikrobiol. Epidemiol. i Immunobiol. No. 1-2: 75-79, 1942. Biol. Abstr. #3300, 1945.

Rowland, Sydney

Attempt to separate the antigen from the nucleoprotein of the plague bacillus by filtration through gelatin. J. Hyg. Plague Suppl. 2. p. 340-343, 1912. Trop. Dis. Bull. 1: 543, 1913.

* Rowland, Sydney

Experiments on the vaccination of animals against plague. J. Hyg. (Plague No.) 536-565, 1910.

* Rowland, Sydney

Further experiments on vaccination against a body strain of plague. J. Hyg. Plague Suppl. 4. p. 752-753, 1915. Trop. Dis. Bull. 5: 396, 1915.

* Rowland, Sydney

The influence of race on the efficiency of the antigen. J. Hyg. Plague Suppl. 4. p. 759, 1915.

- * Rowland, Sydney
On the failure to vaccinate against a virulent body strain even with an antigen prepared as far as possible under body conditions. J. Hyg. Plague Suppl. 4. p. 760-761, 1915.
Trop. Dis. Bull. 5: 398, 1915.
- Rowland, Sydney
The onset and duration of the immunity consequent on the inoculation of plague nucleoprotein. J. Hyg. Plague Suppl. 2. p. 367-372, 1913.
Trop. Dis. Bull. 3: 546, 1913.
- * Rowland, Sydney
Preliminary observations on the protective and curative value for rats of the serum of a horse immunized with a toxic nucleoprotein extracted from the plague bacillus. J. Hyg. 11 (Plague No. 1) 11-19, 1911.
- * Rowland, Sydney
The protective and curative value against infection with a serum made of plague and of the serum of a horse immunized with nucleoprotein extracted from a strain of plague bacillus propagated on serum protein. J. Hyg. Plague Suppl. 4. p. 762-764, 1915.
Trop. Dis. Bull. 5: 399, 1915.
- * Rowland, Sydney
Second report on investigations into plague vaccines. J. Hyg. 11 (Plague No. 2) 20-46, 1911.
- Rues, Egypt
Pasteurella pseudotuberculosis and its serologic behavior. Hospital Tid. de Jazera. 24: 929-936, 1943.
- Schütze, Harry
Bacillus pestis antigens as prophylactic agents. Brit. J. Exper. Path. 20: 235-244, 1939.
Biol. Abstr. #2368, 1940.
- Schütze, Harry
Envelope antigen of *B. pestis* and its antibody. Brit. J. Exper. Path. 15: 200-206, 1934.
Biol. Abstr. #1158, 1936.
- Schütze, Harry
Plague immunization in guinea pigs and rats. Brit. J. Exper. Path. 6: 207-210, 1925.
Trop. Dis. Bull. 23: 185, 1926.
- * Schütze, Harry
Studies in *B. pestis* antigens. I. Antigens and immunity reactions of *B. pestis*. Brit. J. Exper. Path. 13: 284-288, 1932.
Biol. Abstr. #8824, 1933.
- * Schütze, Harry
Studies in *B. pestis* antigens. II. Antigenic relationship of *B. pestis* and *B. pseudotuberculosis* rodentium. Brit. J. Exper. Path. 13: 289-293, 1932.
Biol. Abstr. #8825, 1933.
- * Schütze, Harry
Studies in *B. pestis* antigens. III. Prophylactic value of envelope and somatic antigens of *B. pestis*. Brit. J. Exper. Path. 13: 293-298, 1932.
Biol. Abstr. #8826, 1933.
- * Seal, S. C.
Isolation of an active polysaccharide fraction from plague organisms. Proc. Soc. Exper. Biol. Med. 77: 675-677, 1951.
- * Seal, S. C.
Studies on the specific soluble proteins of *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. II. Complement fixing and immunogenic properties. J. Immun. 71: 169-176, 1953.

- * Seal, S. C.
Studies on the specific soluble protein of *Pasteurella pestis* and allied organism. I. Isolation, fractionation and certain physical, chemical and serological properties. J. Immun. 67: 93-103, 1951.
- * Signorelli, E.
Agglutination studies with plague bacilli. Zent. f. Bakt. Abt. I. 60: 316-349, 1911.

Signorelli, E. and Caldarola, P.
Research on agglutination in different races of plague bacilli. Ann. d. Ig. Sper. 22: 555-567, 1912. Trop. Dis. Bull. 2: 547-548, 1913.
- Silva, Marcello
Diagnosis of plague in man and rodents. Treatment. Arq. de Hig. Rio de Janeiro. 11: 151-188, 1941. Trop. Dis. Bull. 40: 50, 1943.
- Silva, Marcello; and
De Albuquerque, R.
An allergic reaction to plague. Brasil Medico. 54: 759, 1940. Trop. Dis. Bull. 38: 628, 1941.
- Silva, Marcello; and Valença, J. V.
Work of plague Laboratory of Federal Health Commission of old Third Region with headquarters in Fortaleza. Hospital Rio de Janeiro. 19: 957-992, 1941.
- * Silverman, M. S., Elberg, S. S., Meyer, K. F. and Foster, L.
Studies on immunization against plague. III. Quantitative serological studies on an immunizing antigen of *Pasteurella pestis*. J. Immun. 68: 609-620, 1952.
- Souknev, V.; Joukov-Verejnikov, N.; Favorissova, B.; and Kasanzeva, E.
Combined treatment of plague with bacteriophage and envelope, Paris and nucleoproteid antisera. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 387-392, 1935. Trop. Dis. Bull. 33: 877, 1936.
- * Strong, R. P.; and Teague, Oscar
Studies on pneumonic plague and plague immunization. VI. Bacteriology. Philippine J. Sci. 7B: 187-202, 1912.
- * Sugino, Tameji
On the bacteriophage against the plague bacillus. Kitasato Arch. Exper. Med. 1: 72-81, 1932. Biol. Abstr. #6275, 1936.
- Tumanski, V. M.
Application of Noble agglutination reaction to study of plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 244-249, 1940.
- Tumanski, V. M.
Thermagglutination reaction of plague bacilli and *Bacillus pseudotuberculosis rodentium* Pfeiffer. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 92-98, 1939.
- Vercellana, G. and Zanzucchi, A.
Reaction of thermoprecipitins in preserved human pest-infected organs. Pathologica. 18: 185-187, 1926. Biol. Abstr. #7007, 1927.
- Warner, Charlotte E.
The thermoprecipitin method in the diagnosis of bubonic plague in cadavers. J. Hyg. 14: 360-370, 1914. Trop. Dis. Bull. 5: 25, 1915.

V. *Pasteurella pestis*. Serology. Antigenic structure.

- * Wats, R. C.; and Faduval, T. K.
A study of some virulent and avirulent strains of *Pasteurella pestis*. Indian J. Med. Res. 27: 823-831, 1940.
Trop. Dis. Bull. 37: 827, 1940.
- * Wats, R. C.; Wagle, P. M.; and Faduval, T. K.
A serological study of some strains of *Pasteurella pestis*. Indian J. Med. Res. 27: 373-387, 1939.
Trop. Dis. Bull. 37: 420, 1940.
Biol. Abstr. #5006, 1940.
- Wilson, G. S.
Reputed antigenic relationship between organisms of *Brucella* group on one hand and of *Pasteurella*, *Pfeifferella* and *Proteus* groups on the other. J. Hyg. 34: 361-371, 1934.
- Zanzucchi, A., and Vercelliana, G.
Results of thermoprecipitin test in preserved organs from human plague cases. Pathologica. 33: 185-187, 1925.
Trop. Dis. Bull. 24: 39, 1927.
- Zheltenkov, A. I.
Antitoxin producing properties of plague antigens. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 476-488, 1940.
- Zheltenkov, A.
Flocculating properties of anti-plague serums as well as "envelope" and somatic fractions of *B. pestis* and significance of the reaction of flocculation of their standardization. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 31-51, 1940.
Biol. Abstr. #15034, 1941.
- Zhukov-Verezhnikov, N. N.; and Faddeeva, T. D.
Immunology of plague; bacteriolysis. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 54-63, 1938.
- Zhukov-Verezhnikov, N. N.; Faddeeva, T.; Lipatova, T.; and Khvorostukhina, M.
Therapeutic antiplague sera obtained by immunization of horses with capsular antigens of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 149-154, 1935.
- Zhukov-Verezhnikov, N.; and Lipatova, T.
Immunology of plague. 1. Comparative value of antiplague sera and study, by means of Schwartzman's phenomenon, of the significance of *B. pestis* fractions in plague pathogenesis. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 257-267, 1933-1934.
Biol. Abstr. #3378, 1937.
- Zhukov-Verezhnikov, N. N.; and Lipatova, T.
Immunology of plague. 2. Flocculation reaction in titration of antiplague sera. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 29-35, 1934.
Biol. Abstr. #3878, 1937.

BIBLIOGRAPHY ON PASTEURELLA PESTIS AND PLAGUE

VI. PASTEURELLA PESTIS. PHYSIOLOGY.

- * Abel, Rudolf
Knowledge of the plague bacillus.
Zent. f. Bakt. Abt. I.
21: 497-517. 1897.
- Albrecht, H.; and Ghon, A.
Bacteriological studies on plague
bacillus. Denkschr. d. kaiser Akad.
d. Wissensch. 66: 581-827. 1900.
- * Baltazard, M.; and Aslani, P.
Biochemical characteristics of
strains of "wild" plague in Kurdistan.
Ann. Inst. Past. 83: 241-247. 1952.
Trop. Dis. Bull. 50: 26. 1953.
- * Berkman, Sam
Accessory growth factor require-
ments of the members of the genus
Pasteurella. J. Infec. Dis.
71: 201-211. 1942.
- * Berkman, Sam, and Koser, S. A.
Accessory growth factor require-
ments of the genus Pasteurella.
J. Bact. 41: 38-39. 1941.
- * Berkman, Sam; Saunders, Felix;
and Koser, S. A.
Accessory growth factor require-
ments of some members of the
Pasteurella group. Proc. Soc.
Exper. Biol. Med. 44: 63-70. 1940.
- Berlin, A. P., and Borzenkov, A. K.
Fermentative characteristics of
the Mongolian strain of *B. pestis*.
1. Fermentative activity in relation
to various carbohydrates, alcohols,
and glucosides; the relation of the
plague bacillus strains to glycerine.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 17: 215-227. 1938.
Biol. Abstr. #9266. 1943.
- Berlin, A. P.; and Borzenkov, A. K.
Rhamnose positive plus variants
of *B. pestis* and the differential
diagnostic value of a rhamnose
medium. Vest. Mikrobiol. Epidemiol.
i Parazitol. 17: 238-246. 1938.
Biol. Abstr. #6101. 1943.
- Bystrenin, A. I.
Chemical composition of plague
bacilli. Vest. Mikrobiol.
Epidemiol. i Parazitol. 19: 433-437.
1940. German summary.
Chem. Abstr. 36: 1975.
- * D'Aunoy, Rigney
Studies on *Bacillus pestis*;
optimum and limiting hydrogen-ion
concentration for growth of *Bacillus
pestis*. J. Infec. Dis.
33: 391-415. 1923.
- Devignat, R.; and Boivin, A.
The biochemistry of central-
African strains of plague in the
Belgian Congo. Bull. Soc. Path.
Exot. 44: 279-284. 1951.
Trop. Dis. Bull. 48: 984. 1951.
- * Dneudonne, A.; and Otto, R.
Pest. In Handbuch der patho-
genen Mikroorganismen, by W. Kolle,
R. Kraus, and P. Uhlenhuth. 3d ed.
Jena, Gustav Fischer. 1928.
v. 4, p. 179-412.
- Donskov, G. D.; and Lokhov, M. G.
Effect of alcohol on morphologic,
biochemical and biologic characteris-
tics of plague bacilli. Vest.
Mikrobiol. Epidemiol. i Parazitol.
15: 187-193. 1936.
Trop. Dis. Bull. 34: 414. 1937.

VI. Pasteurella pestis. Physiology.

- * Doudoroff, Michael
Studies on the nutrition and metabolism of *Pasteurella pestis*.
Proc. Soc. Exper. Biol. Med.
53: 73-75, 1943.
- * Englesberg, Ellis.
The irreversibility of methionine synthesis from cysteine in *Pasteurella pestis*. J. Bact.
63: 675-680, 1952.
- * Fauconnier, J.
The decomposition of urea in Ferguson synthetic medium by *Pasteurella pseudotuberculosis*, new reaction for differentiating the etiologic agents of plague and pseudotuberculosis. Ann. Inst. Pasteur.
79: 104-105, 1950.
- Fusco, G.
Nitrous acid reaction of plague cultures. Pathologica. 19: 444, 1927.
- * Girard, Georges.
Nitrite reaction for the separation of the plague bacillus from the bacillus of pseudotuberculosis. Compt. Rend. Soc. Biol.
133: 244-246, 1940.
Trop. Dis. Bull. 37: 422, 1940.
- * Girard, Georges
Production of crystals by a strain of *Pasteurella pestis* cultivated on a certain agar-containing medium. Compt. Rend. Acad. Sci.
235: 1441-1443, 1952.
- Colem, D. S. B.; and Ozsan, K.
Biochemical differences in Turkish strains of *Pasteurella pestis*. Turk. Bull. Hyg. Exper. Biol.
12: 29-51, 1952. In French, p. 52-55. Excerpta Med. IV. #736, 1953.
- Gore, S. N.
Protein reactions of bacteria; plea for their routine use and intensive study. Indian Med. Gaz.
65: 261-273, 1930.
- Gubarev, E.; and Lipatova, T.
Effect of certain anions and cations on growth of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 507-512, 1930.
Biol. Abstr. #16081, 1934.
- Henriques, Athos
Use of nitrous reaction in identification of plague bacilli. Hospital, Rio de Janeiro.
18: 123-124, 1940.
Chem. Abstr. 35: 6279.
- * Herbert, D.
Studies on the nutrition of *Pasteurella pestis* and factors affecting the growth of isolated cells on an agar surface. Brit. J. Exper. Path. 30: 509-519, 1949.
- * Hills, G. M.; and Spurr, E. D.
The effect of temperature on the nutritional requirements of *Pasteurella pestis*. J. Gen. Microbiol.
6: 64-73, 1952.
- * Ivancovsky, N.; and Sassykina, T.
Schardinger's reaction for differentiation of *Bacillus pestis* and *Bacillus pseudotuberculosis*. Zent. f. Bakt. Abt. I.
117: 535-539, 1930.
Trop. Dis. Bull. 28: 391, 1931.
- Ivancovsky, N.; and Sassykina, T.
Schardinger's reaction in differentiation of *Bacillus pestis* and *Bacillus pseudotuberculosis rodentium* Pfeiffer. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 72-76, 1930.
Biol. Abstr. #13792, 1932.
Trop. Dis. Bull. 28: 391, 1931.

VI. Pasteurella pestis. Physiology.

Konovalova, S. F.

Denitrification by cultures of *B. pestis* and *B. pseudotuberculosis rodentium*. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 513-516, 1930.
Biol. Abstr. #16089, 1934.

Korobkova, M. I.

Changes of hydrogen ion concentration and phenomena of reduction observed during development of *Bacillus pestis* and *Bacillus pseudotuberculosis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 435-457, 1929.
French summary, p. 484-486.
Trop. Dis. Bull. 27: 739, 1930.

Korobkova, M. I.

Study of *B. pestis* and *B. pseudotuberculosis rodentium*. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 435-457, 1929. French summary, p. 484-486.
Biol. Abstr. #13795, 1932.

* Kurauchi, K.

Differentiation of *B. pestis* from allied organisms by means of their biological properties on plague bacillus-like strain isolated from suslik; plague studies III. Kitasato Arch. Exper. Med. 8: 45-59, 1931.
Biol. Abstr. #7752, 1932.

* Kurauchi, K.

Fermentation reactions of *B. pseudotuberculosis*, *B. pestis* and hemorrhagic septicemia group. Kitasato Arch. Exper. Med. 8: 89-98, 1931.
Biol. Abstr. #11405, 1933.

* Levine, H. B.

Influence of insulin on the rate of glucose oxidation by *Pasteurella pestis*. J. Gen. Physiol. 34: 161-166, 1950.

Macchiavello, Atilio

Study of the variability of the plague bacillus, with special reference to morphology, colony characteristics, virulence, toxicity and biochemical properties. Arq. de Hig. Rio de Janeiro. 11(2): 73-102, 1941.
Trop. Dis. Bull. 40: 47, 1943.

Maruyama, Y.

Addendum to the report on the morphology of plague bacilli, their catalase action and reducing power. Taiwan Igakkai Zasshi. No. 248: 1-4, 1925.
Trop. Dis. Bull. 23: 619, 1926.

Matumoto, M.

Studies on *Pasteurella pestis*; biochemistry, with special reference to fermentation reactions. Jap. Med. J. 1: 484-493, 1948.
Trop. Dis. Bull. 47: 325, 1950.

Matumoto, M.

Studies on *Pasteurella pestis*. II. On the relationship between the fermentation reaction of glycerine by the strains of *Pasteurella pestis* and their geographical distribution. Jap. J. Exper. Med. 20: 285-294, 1949.
Biol. Abstr. #1361, 1952.
Trop. Dis. Bull. 48: 36, 1951.

* Morales, O. P.

Bacteriology of plague; a review. Puerto Rico J. Pub. Health & Trop. Med. 11: 553-583, 1936.

Otake, Yoshio

Influence of *Bacillus pestis* on hydrogen ion concentration of culture medium and its carbohydrate splitting action. Jap. Med. World. 9(2): 54-55, 1929.
Trop. Dis. Bull. 27: 8, 1930.

VI. *Pasteurella pestis*. Physiology.

- * Petrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.
- * Pollitzer, R.
Plague studies. 2. The plague bacillus. Bull. World Health Organization. 5: 73-108, 1952.
- Pons, R.
Action of plague bacillus on principle carbohydrates. Ann. Inst. Pasteur. 39: 884-887, 1925.
Trop. Dis. Bull. 23: 184, 1926.
- Pulvirenti, G. B.
Production of hydrogen sulphide by bacteria. Riv. Biol. 41: 507-509, 1949.
- Rakhinsky, B.
Comparative study of R and S forms of *B. pestis* and *B. pseudotuberculosis* in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 369-376, 1930.
Biol. Abstr. #16101, 1934.
- * Rao, M. S.
Further studies on the nutrition of the plague bacillus; the role of haematin and other compounds. Indian J. Med. Res. 27: 833-846, 1940.
Chem. Abstr. 35: 1826.
Trop. Dis. Bull. 37: 826, 1940.
- * Rao, M. S.
Nutritional requirements of plague bacillus. Indian J. Med. Res. 27: 75-89, 1939.
- * Rao, M. S.
Oxidations effected by the plague bacillus. Indian J. Med. Res. 27: 617-626, 1940.
- * Rockenmacher, Morris
Relationship of catalase activity to virulence in *Pasteurella pestis*. Proc. Soc. Exper. Biol. Med. 71: 99-101, 1949.
- * Rockenmacher, Morris; James, H. A.; and Elberg, S. S.
Studies on the nutrition and physiology of *Pasteurella pestis*. I. A chemically defined culture medium for *Pasteurella pestis*. J. Bact. 63: 785-794, 1952.
- Russo, Egydio
Contributions to the study of fermentation of bacteria of genus *Pasteurella*. Hospital, Rio de Janeiro. 16: 57-66, 1939.
Biol. Abstr. #16519, 1944.
- Russo, Egydio
Fermentative action of bacteria of the *Pasteurella* group. Hospital, Rio de Janeiro. 17: 47-51, 1940.
Biol. Abstr. #3733, 1941.
Trop. Dis. Bull. 37: 422, 1940.
- * Savino, Enrico; Aldao, A.; and Anchezar, Benjamin.
Cultural characters of the genus *Pasteurella*. Rev. Inst. Bact. Buenos Aires. 9: 110-121, 1939.
Biol. Abstr. #4888, 1941.
- * Schütze, Harry; and Hassanein, M.A.
Oxygen requirements of *B. pestis* and *Pasteurella* strains. Brit. J. Exper. Path. 10: 204-209, 1929.
Biol. Abstr. 4: 22150, 1930.
Trop. Dis. Bull. 27: 8, 1930.
- * Smith, L. D.; and Phillips, R. L.
Growth of *Pasteurella pestis* on casein digest medium. J. Franklin Inst. 235: 536-545, 1943.
- * Sokhey, S. S.; and Habbu, M. K.
Optimum and limiting hydrogen ion concentrations for the growth of the plague bacillus in broth. J. Bact. 46: 33-37, 1943.

VI. *Pasteurella pestis*. Physiology.

- * Sokhey, S. S.; and Habbu, M. K.
Optimum and limiting temperatures
for the growth of the plague bacillus
in broth. *J. Bact.* 46: 25-32,
1943.
- * Wade, H. W.
Carbohydrate fermentation by
Bacillus pestis, comparing certain
American and Oriental strains.
Philippine J. Sci. 11B: 159-182,
1916.
- * Woodward, Gladys E.
The ribonuclease activity of
Pasteurella pestis. *J. Biol. Chem.*
156: 143-149, 1944.
- * Wright, R. D.
Cultivation of plague bacillus.
J. Path. & Bact. 39: 381-390, 1934.
- Yaoi, H.; Yoshino, K.; and Ikegami, M.
Studies on the semi-synthetic
media for the *Pasteurella pestis*.
1st Report. On the nutritional re-
quirement of *Pasteurella pestis*.
Jap. Med. J. 3(1): 11-15, 1950.
Trop. Dis. Bull. 48: 629, 1951.

BIBLIOGRAPHY ON PASTEURELLA PESTIS AND PLAGUE

VII. PASTEURELLA PESTIS. VIABILITY. SENSITIVITY.

- * Abel, Rudolf
Knowledge of the plague bacillus.
Zent. f. Bakt. Abt. I.
21: 497-517, 1897.
- Berdnikoff, V. A.
Effect of fixation and staining
on viability of *B. pestis*.
Vest. Mikrobiol. Epidemiol. i
Parasitol. 8: 33-39, 1929.
Biol. Abstr. #9129, 1934.
Trop. Dis. Bull. 26: 638, 1929.
- * Blanc, Georges
Prolonged virulence of *Pasteu-
rella pestis* in dead rat fleas,
Xenopsylla cheopis, preserved in
dry state. Ann. Inst. Past.
75: 569-571, 1948.
Trop. Dis. Bull. 46: 461, 1949.
- * Blanc, Georges; and Baltazard, Marcel.
Virulence of plague-rice dejecta.
Ann. Inst. Pasteur. 72: 486-489,
1946.
Trop. Dis. Bull. 43: 1038, 1946.
- Bonopera, A.
Tolerance to various concentra-
tions of sodium chloride of some
pathogenic germs in relation to
their smooth and rough phases.
Boll. d. Soc. Ital. d. Microbiol.
14: 5-8, 1942.
- Breyinger, D. B.
Action of calcium chloride on
plague bacillus. Vest. Mikrobiol.
Epidemiol. i Parazitol.
17: 116-119, 1939.
Trop. Dis. Bull. 36: 964, 1939.
- Bruni, N.
Action of hydrocyanic acid on
plague bacilli. Igiene Mod.
15: 353-368, 1922.
- Caius, J. F.; Kamat, S. A.; and
Naidu, B. P. B.
Bactericidal action of some
organic compounds of mercury on
Bacillus pestis. Indian J. Med. Res.
15: 327-333, 1927.
Biol. Abstr. #10900, 1928.
Trop. Dis. Bull. 25: 319, 1928.
- Caius, I. F.; Naidu, B. P. B.; and
Jang, Shamsher.
Bactericidal action of commoner
phenols and of some of their de-
rivatives on *Bacillus pestis*.
Indian J. Med. Res. 15: 117-134,
1927.
Biol. Abstr. #17878, 1928.
- Clark, C. H.
Note on the viability of *Bacillus
pestis* in a cadaver buried in quick-
lime. Proc. Med. Assoc. Isthmian
Canal Zone. 5(Pt. 2): 77-79, 1913.
Trop. Dis. Bull. 6: 417, 1915.
- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der patho-
genen Mikroorganismen, by W. Kolle,
R. Kraus, and P. Uhlenhuth. 3d ed.
Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.
- Donakov, G. D.; and Lokhov, M. G.
Effect of alcohol on morphologic,
biochemical and biologic characteris-
tics of plague bacilli. Vest.
Mikrobiol. Epidemiol. i Parazitol.
15: 187-193, 1936.
Trop. Dis. Bull. 34: 414, 1937.
- Eichbaum, F. W.
Biological properties of
anaccardic acid (o-pentadecadienyl-
salicylic acid) and related com-
pounds. I. General discussion.
Bactericidal action. Mem. Inst.
Butanan. 19: 71-133, 1946.
Biol. Abstr. #25364, 1947.

VII. *Pasteurella pestis*. Viability. Sensitivity.

Fialho, A.

Duration of survival of plague bacilli in cadavers of experimentally infected guinea pigs. Arch. d. Hyg. 2: 19-26, 1928.

Fleas, ticks and lice retain plague infection after ten months in ice-box. Pub. Health Repts. 52: 1179, 1937.

* Francis, Edward

Duration of viability and virulence of plague bacilli. Pub. Health Repts. 47: 1287-1294, 1932.

* Francis, Edward.

Twenty-five year survival of a *Pasteurella pestis* culture without transfer. Pub. Health Repts. 64: 238-240, 1949.

* Francis, Edward.

Twenty year survival of virulent *Bacillus pestis* cultures without transfer. Pub. Health Repts. 58: 1379-1382, 1943.

Gaisky, N. A.

The vitality of plague bacilli on stored suslik skins. Vest. Mikrobiol. Epidemiol. i Parazitol. 4: 15-17, 1925.
Trop. Dis. Bull. 23: 618, 1926.

Galler, O.; and Sasykina, T.

Chloropicrin as a disinfectant of domiciles and clothing during a pest epidemic. Vest. Mikrobiol. Epidemiol. i Parazitol. 6: 275-279, 1927.
Biol. Abstr. #8476, 1929.

* Girard, Georges

The behavior of emulsions of plague bacilli in physiological saline. Ann. Inst. Pasteur. 70: 315-317, 1944.

Girard, Georges

Considerations on elimination of plague bacilli in sputum of healthy persons; possible role in transmission of pneumonic plague. Bull. Soc. Path. Exot. 34: 215-223, 1941.

* Goetchius, G. R.; and Lawrence, C.A.

Antibacterial action of N-alkyl-p-aminobenzoic acid derivatives. Proc. Soc. Exper. Biol. Med. 64: 255-258, 1947.
Biol. Abstr. #22691, 1947.

Golov, D. A.; and Ioff, I. G.

Influence of certain conditions on the conservation of *B. pestis* in fleas at various stages of their development. Compt. Rend. Premier Congrès Antipest, URSS. p. 158-181, 1927. French summary, p. 464-467.
Biol. Abstr. #28617, 1931.

* Issaly, A. S.; and De Issaly, I.S.M.

A modification of Broquet's fluid for the better preservation of the viability and virulence of the plague bacillus in infected organs. Rev. Inst. Bact. Buenos Aires. 14: 191-201, 1949.
Trop. Dis. Bull. 47: 355, 1950.

Jettmar, H. M.

Notes on the vitality of plague bacilli in stained smears. Natl. Med. J. China. 12: 1-8, 1926.
Biol. Abstr. #9914, 1927.
Trop. Dis. Bull. 24: 38, 1927.

Lenskaia, G. N.; Egorov, A. N. et al.

Survival of *B. pestis* in perennial preservation on culture media. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 149-158, 1931.
Biol. Abstr. #16091, 1934.

Macchiavello, Atilio

Survival and virulence of Brazilian strains of *Pasteurella pestis* in symbiosis with fungi, micrococci, pneumococci, gram-negative bacilli, *Corynebacterium*, etc. and under tropical conditions. Arq. d. Hig. Rio de Janeiro. 12: 23-32, 1942.

VII. *Pasteurella pestis*. Viability. Sensitivity.

Macchiavello, Atilio; and
Paracampes, Helio
Viability and virulence of *P.*
pestis in the tropics. I. In the
viscera of dead animals and man.
Arq. de Hig. Rio de Janeiro.
11(2): 109-117, 1941.
Trop. Dis. Bull. 40: 48, 1943.

Macchiavello, Atilio; and
Paracampes, Helio
Viability and virulence of *P.*
pestis. 2. In animal organs kept
in the ice chest. Arq. de Hig.
Rio de Janeiro. 11(2): 119-126,
1941.
Trop. Dis. Bull. 40: 49, 1943.

Macchiavello, Atilio; and
Paracampes, Helio
Viability and virulence of *P.*
pestis. 3. In organs of guinea pigs
kept in glycerine at 0°- 5°C. Arq.
de Hig. Rio de Janeiro.
11(2): 127-131, 1941.
Trop. Dis. Bull. 40: 49, 1943.

Macchiavello, Atilio; and
Paracampes, Helio
Viability and virulence of *P.*
pestis. 4. Kept in cultures with-
out subculture under conditions pre-
vailing in the tropics. Arq. de
Hig. 11: 133-141, 1941.
Trop. Dis. Bull. 40: 49, 1943.

Macchiavello, Atilio; and
Paracampes, Helio
Viability and virulence of *P.*
pestis. 5. In original cultures
not subcultured for 5 to 8 years.
Method of Assis. Arq. d. Hig. Rio
de Janeiro. 11(2): 143-149, 1941.
Trop. Dis. Bull. 40: 50, 1943.

Macchiavello, Atilio
Virulence of *Pasteurella pestis*;
changes under various experimental
conditions. Arq. de Hig. Rio de
Janeiro. 12: 33-39, 1942.

Macchiavello, Atilio; and
Paracampes, Helio
Survival and virulence of *Pasteu-*
rella pestis; diagnostic value of
bone marrow in animals in tropics.
Arq. d. Hig. Rio de Janeiro.
12: 41-46, 1942.

McCoy, G. W.
The virulence of old and of recent
cultures of *Bacillus pestis*.
J. Infec. Dis. 7: 170-180, 1909.

Marie, A. C.
Biologic properties of cerebro-
spinal fluid. (Effect on survival of
plague bacilli). Compt. Rend. Soc.
Biol. 110: 762-763, 1932.
Biol. Abstr. #8106, 1934.

Meyer, J. R.
Bacteriostatic activity of
P. cinnabarinus. Arq. Inst. Biol.
São Paulo. 15: 27-36, 1944.
Biol. Abstr. #17912, 1946.

Minett, F. C.
Multiplication of *B. anthracis*,
Cl. chauvoe; and *Pasteurella* in
animal carcasses with a note on the
rate of cooling of carcasses.
Indian J. Vet. Sci. & Anim. Husbandry.
15: 99-108, 1945.
Biol. Abstr. #17888, 1947.

Novikova, E. I.; and Lalazarov, G.A.
The role of bedbugs in the epi-
demiology of plague. I. The duration
of viability of plague virus in the
body of the infected bedbug. Vest
Mikrobiol. Epidemiol. i Parazitol.
10: 315-322, 1931.
Trop. Dis. Bull. 30: 163, 1933.

Novikova, E. I.; and Lalazarov, G. A.
Viability of plague bacilli in
corpses of *Citellus pygmaeus*.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 13: 53-54, 1934.
Biol. Abstr. #11975, 1935.

VII. *Pasteurella pestis*. Viability. Sensitivity.

- * Petrie, G. F.
Bacillus pestis. In: Great Britain. Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.
- * Pollitzer, R.
 Plague studies. 2. The plague bacillus. Bull. World Health Organization. 5: 73-108, 1952.
- Reitano, U.
 Vitality, virulence, and immunizing power of dried plague bacilli. Soc. Internaz. d. Microbiol. Boll. d. Sez. Ital. 9: 55-60, 1937. Trop. Dis. Bull. 35: 215, 1938.
- * Rowland, Sydney
 Ultraviolet light as a germicide in the preparation of plague vaccine. J. Hyg. Plague Suppl. 4. p. 765-69, 1915. Trop. Dis. Bull. 5: 399, 1915.
- Russo, Canio
 Viability and virulence of plague in bone marrow. Rendiconti Ist. d. Sanita Pub. 2: 197-200, 1939. Trop. Dis. Bull. 36: 964, 1939.
- Schein, H.; and Jacotot, M.
 Persistence of plague virus in green hides. Ann. d. Inst. Pasteur. 39: 448-461, 1925.
- * Schurupoff, J. S.
 The vitality of the plague bacillus in the corpses of plague patients. Zent. f. Bakt. Abt. I. 65: 225-243, 1912.
- Semikoz, F. F.
 Chlorpicrin and disinfection against plague. Compt. Rend. Prem. Congres Antipest, URSS. p. 253-268, 1927. French summary, p. 476-477. Biol. Abstr. #28716, 1930.
- Semikoz, F. F.
 Vitality of plague bacilli in polluted grain. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 55-60, 1934.
- Semikoz, F. F.; Bessonova, A.; and Kotelnikov, G.
 Excretion of guinea pigs experimentally injected with plague. Compt. Rend. Premier Congres Antipest URSS. p. 346-377, 1928. Biol. Abstr. #28256, 1930.
- Shmelev, K. A.; and Fedorov, V. N.
 Action of disinfectants on plague bacillus. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 104-111, 1939. Trop. Dis. Bull. 36: 964, 1939.
- Skorodumov, A.
 Influence of frost and thaw on the growth and virulence of plague organisms. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 280-284, 1928. German summary, p. 339. Trop. Dis. Bull. 26: 637, 1929.
- Smirnov, V. P.
 Effectiveness of chloropicrine in disinfection of skin of infected rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 112-115, 1939.
- Smirnov, V. P.
 Preservation of plague virus in fur of rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 322-325, 1940.
- Sokhey, S. S.
 Experimental studies in plague. VI. A method for maintaining the virulence of *Past. pestis*. Indian J. Med. Res. 27: 363-371, 1939. Trop. Dis. Bull. 37: 420, 1940.

VII. *Pasteurella pestis*. Viability. Sensitivity.

- Stamatin, N.; and Eladeanu, M.
Pasteurella; sensitivity to bacteriostatic and lytic action of penicillin. Arch. Roumaines Path. Exper. et Microbiol. 15: 250-253, 1948,
 Excerpta Med. IV. #5489, 1949.
- * Teague, Oscar
 A further note upon the influence of atmospheric temperature upon the spread of pneumonic plague. Philippine J. Sci. 8B: 241-252, 1913.
- * Teague, Oscar; and Barber, M. A.
 Studies on pneumonic plague and plague immunization. III. Influence of atmospheric temperature upon the spread of pneumonic plague. Philippine J. Sci. 7B: 157-172, 1912.
- * Tinker, J. S.; and Rudnev, G. P.
 Studies on the vitality of *B. pestis*. Arch. f. Schiffsa.-u. Tropen-Hyg. 34: 554-559, 1930.
 Trop. Dis. Bull. 28: 290, 1931.
- Uriarte, Leopoldo
 Latent persistence of plague bacillus in infected organism. Compt. Rend. Soc. Biol. 91: 1040-1941, 1924.
- Uriarte, Leopoldo; and Villazón, N.M.
 Conservation of vitality and virulence in plague bacilli. Rev. d. Inst. Bact. 8: 5-11, 1936.
 Trop. Dis. Bull. 34: 413, 1937.
- Vallejo, J. L.
 Survival of *Bacillus pestis* outside of human and animal bodies. Rev. Mex. de Biol. 10: 141-143, 1930.
- Wilson, R. J.
 The viability of the *Bacillus pestis* in stock cultures. Proc. New York Pathological Soc. 13: 149-150, 1913.
- * Wright, H. D.
 Cultivation of plague bacillus. J. Path. & Bact. 39: 381-390, 1934.

BIBLIOGRAPHY ON PASTEURURELLA PESTIS AND PLAGUE

VIII. PASTEURURELLA PESTIS. VIRULENCE.

- * Abel, Rudolf
 knowledge of the plague bacillus.
 Zent. f. Bakt. Abt. I.
 21: 497-517, 1897.
- * Anchezar, B. N.
 Bacteriologic and anatomo-
 pathologic study of the experimental
 infection with *P. pestis*. Rev.
 Inst. Bact. Buenos Aires.
 8: 196-227, 1938.
 Trop. Dis. Bull. 36: 313, 1939.
- Anchezar, B. N.
 Bacteriological and pathological
 study of experimental infection with
Pasteurella pestis (avirulent
 strain E.V. of Girard). Rev.
 Sud-Amer. Endocrin., Immunol. y
 Quimioter. 23: 493-494, 1940.
 Biol. Abstr. #2603, 1941.
- * Barber, M. A.
 Studies of pneumonic plague and
 plague immunization. X. Immuniza-
 tion of guinea pigs by vaccination
 with avirulent plague bacilli mixed
 with agar. Philippine J. Sci.
 7B: 245-250, 1912.
- Bisogni, G.
 Restoration of virulence of plague
 bacillus preserved in artificial
 culture by passage through special
 medium. Gior. Ital. d. Mal. Esot.
 e Trop. 2: 534, 1929.
- * Blanc, Georges; and Baltazard, Marcel.
 Virulence of plague-flea dejecta.
 Ann. Inst. Pasteur. 72: 486-489,
 1946.
 Trop. Dis. Bull. 43: 1038, 1946.
- Bombay. Haffkine Institute.
 Report of the Haffkine Institute
 for the years 1932-1935. Part II-A.
 Plague. p. 51-89.
 Trop. Dis. Bull. 34: 402, 1937.
- Bombay. Haffkine Institute.
 Report of the Haffkine Institute
 for the year 1939. Studies on plague.
 p. 3-6, 33-43.
 Trop. Dis. Bull. 39: 300-301, 1942.
- * Bronfenbrenner, J.; Muckenfuss, R. S.;
 and Korb, C.
 Studies on the bacteriophage of
 d'Herselles. VI. On the virulence of
 the overgrowth in the lysed cultures
 of *B. pestis caviae*. J. Exper.
 Med. 44: 607-622, 1926.
- Burgess, A. S.
 Selection of strain of *Bacillus*
pestis for preparation of vaccine,
 with special reference to effect of
 animal passage on virulence.
 J. Hyg. 26: 152-162, 1927.
 Biol. Abstr. #8087, 1929.
 Trop. Dis. Bull. 24: 938, 1927.
- Burgess, A. S.
 Virulence, immunity and bacterio-
 logical variation in relation to
 plague. J. Hyg. 30: 165-179, 1930.
 Biol. Abstr. #28276, 1931.
 Trop. Dis. Bull. 28: 389, 1931.
- Burnet, E.
 Studies on the filterable forms
 of bacteria. Experiments with plague
 bacilli. Arch. Inst. Pasteur de
 Tunis. 15: 292-304, 1926.
 Biol. Abstr. #11482, 1928.
 Trop. Dis. Bull. 24: 458, 1927.

VIII. Pasteurella pestis. Virulence.

- Devignat, R.
Aeration of fluid culture media.
Supplementary observations.
Edinburgh Med. J. 51: 124-130, 1944.
Trop. Dis. Bull. 41: 668, 1944.
- Devignat, R.
Characteristics of plague in the
Belgian Congo. Rev. Colon. Med.
Chir. 24: 148-156, 1952.
Trop. Dis. Bull. 50: 25-26, 1953.
- Devignat, R.; and Schoetter, M.
The plague bacillus in aerated
medium. Rec. Trav. Sci. Med. Congo
Belge. No. 1: 161-181, 1942.
Chem. Abstr. 37: 5440.
Trop. Dis. Bull. 40: 391, 1943.
- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der patho-
genen Mikroorganismen, by W. Kolla,
R. Kraus, and P. Uhlenhuth. 3d ed.
Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.
- Doorenbos, W.
Researches on pathogenesis of
plague. Nederl. Tijdschr. v.
Geneesk. 74: 880-893, 1930.
Biol. Abstr. #8285, 1931.
Trop. Dis. Bull. 27: 730, 1930.
- * Ebersson, Frederick
Nature of plague proteotoxins.
J. Infec. Dis. 21: 56-61, 1917.
- * Ebersson, Frederick
Plague poisons and virulence.
J. Infec. Dis. 20: 180-184, 1917.
- Galeotti.
Toxin production. Rept. Internat.
Plague Conf., 1911. p. 50-53, 1912.
- George, P. V.; and Webster, W. J.
Plague inquiry in the Gumbum
Valley, South India. Indian J.
Med. Res. 22: 77-103, 1934.
- * Girard, Georges.
The behavior of emulsions of
plague bacilli in physiological
saline. Ann. Inst. Pasteur.
70: 315-317, 1944.
- * Girard, Georges.
Essential characteristics in
strains of plague for use as living
vaccines. Ann. Inst. Pasteur.
67: 365-367, 1941.
Trop. Dis. Bull. 39: 763, 1942.
- * Girard, Georges.
The toxin of Pasteurella pseudo-
tuberculosis; its relationship to
the toxin of Pasteurella pestis.
Ann. Inst. Pasteur. 79: 33-43,
1950.
- * Girard, Georges; and Milliau, M.
A case of fatal bubonic plague;
considerations on the virulence of
bacilli isolated during evaluation
of the infection. Bull. Soc. Path.
Exot. 28: 880-883, 1935.
- Girard, Georges; and Robic, J.
Vaccination against plague with a
living strain of Yersinia bacillus,
of attenuated virulence. Bull.
Acad. Med. Paris. 111: 939-945,
1934.
Trop. Dis. Bull. 31: 885, 1934.
- * Girard, Georges; and Sandor, Georges.
Nature of plague toxin. Compt.
Rend. Acad. Sci. 224: 1078-1080,
1947.
Trop. Dis. Bull. 44: 900, 1947.
- * Goodner, K.; Bartell, P.; and
Pannell, L.
Toxins of Pasteurella pestis.
Fed. Proc. 11: 470, 1952.

VIII. Pasteurella pestis. Virulence.

- * Issaly, A. S.; and De Issaly, I. S. M.
A modification of Broquet's fluid for the better preservation of the viability and virulence of the plague bacillus in infected organs. Rev. Inst. Bact. Buenos Aires. 14: 191-201, 1949.
Trop. Dis. Bull. 47: 355, 1950.
- * Jawetz, E.; and Meyer, K. F.
Avirulent strains of Pasteurella pestis. J. Infec. Dis. 73: 124-143, 1943.
- * Jawetz, E.; and Meyer, K. F.
The behavior of virulent and avirulent P. pestis in normal and immune experimental animals. J. Infec. Dis. 74: 1-13, 1944.
- Jettmar, H. M.
Remarks on the coexistence of tuberculosis and plague. (Studies on mixed infection in guinea pigs). Natl. Med. J. China. 11: 257-281, 1925.
Trop. Dis. Bull. 23: 183, 1926.
- Korobkova, E. I.
Action of bacteriophage on R and S variants of plague bacilli and appearance of avirulent strains. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 3-17, 1938.
- Korobkova, E. I.
Biology of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 163-184, 1936.
Trop. Dis. Bull. 34: 413, 1937.
- Korobkova, E. I.
Comparative study of pathogenic and vaccinating properties of EV strain of Girard and Robic and of 46S variant of plague bacillus. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 3-31, 1940.
- Korobkova, E.
Hemolytic properties of B. pestis and B. pseudotuberculosis. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 3-18, 1940.
Biol. Abstr. #15101, 1941.
- Korobkova, E. I.
Use of avirulent strains of plague bacilli in preparation of antiserum. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 265-272, 1939.
- La Rosa, G.
The effects of bile on the plague bacillus. Gior. d. Batteriol. e Immunol. 5: 1768-1780, 1930.
Trop. Dis. Bull. 28: 390, 1931.
- Macchiavello, Atilio
Study of the variability of the plague bacillus with special reference to morphology, colony characteristics, virulence, toxicity and biochemical properties. Arq. de Hig. Rio de Janeiro. 11(2): 73-102, 1941.
Trop. Dis. Bull. 40: 47, 1943.
- Macchiavello, Atilio
Survival and virulence of Brazilian strains of Pasteurella pestis in symbiosis with fungi, micrococci, pneumococci, gram-negative bacilli, Corynebacterium, etc. and under tropical conditions. Arq. de Hig. Rio de Janeiro. 12: 23-32, 1942.
- Macchiavello, Atilio
Virulence of Pasteurella pestis; changes under various experimental conditions. Arq. de Hig. Rio de Janeiro. 12: 33-39, 1942.
- Macchiavello, Atilio; and Paracampo, Helio
Survival and virulence of Pasteurella pestis; diagnostic value of bone marrow in animals in tropics. Arq. d. Hig. Rio de Janeiro. 12: 41-46, 1942.

VIII. Pasteurella pestis. Virulence.

Macchiavello, Atilio; and
Paracamos, Helio

Viability and virulence of *P. pestis* in the tropics. I. In the viscera of dead animals and man. Arq. de Hig. Rio de Janeiro. 11(2): 109-117, 1941. Trop. Dis. Bull. 40: 48, 1943.

Macchiavello, Atilio; and
Paracamos, Helio

Viability and virulence of *P. pestis*. 2. In animal organs kept in the ice chest. Arq. de Hig. Rio de Janeiro. 11(2): 119-126, 1941. Trop. Dis. Bull. 40: 49, 1943.

Macchiavello, Atilio; and
Paracamos, Helio

Viability and virulence of *P. pestis*. 3. In organs of guinea pigs kept in glycerine at 0°-5°C. Arq. de Hig. Rio de Janeiro. 11(2): 127-131, 1941. Trop. Dis. Bull. 40: 49, 1943.

Macchiavello, Atilio; and
Paracamos, Helio

Viability and virulence of *P. pestis*. 5. In original cultures not subcultured for 5 to 8 years. Method of Assis. Arq. de Hig. Rio de Janeiro. 11(2): 143-149, 1941. Trop. Dis. Bull. 40: 50, 1943.

* Macchiavello, Atilio; and
Uriquen, Daniel

Experimental plague in guinea pigs inoculated with *P. pestis* of the Ecuador strain. Puerto Rico J. Pub. Health & Trop. Med. 19: 577-601, 1944.

McCoy, G. W.

The virulence of old and of recent cultures of *Bacillus pestis*. J. Infec. Dis. 7: 170-180, 1909.

McCoy, G. W.; and Chapin, C. W.

The virulence of *Bacillus pestis* of ground squirrel origin. U.S. Pub. Health Serv. Bull. No. 53, 1912. p. 6-11.

* Meyer, K. F.

Experimental appraisal of antiplague vaccination with dead virulent and living avirulent plague bacilli. Proc. 4th Internat. Congr. Trop. Med. Malaria, 1948. p. 264-274.

Naidu, B. P. B.; and Jung, J. S.

Production of alkalinity by *B. pestis* in broth and effect of this alkalinity on toxicity and potency of the prophylactic. Indian J. Med. Res. 15: 335-341, 1927. Trop. Dis. Bull. 25: 320, 1928.

Neel, R.

The effect of treatment by Streptomycin on the virulence of *P. pestis* in experimental pneumonic plague of guinea pigs. Bull. Soc. Path. Exot. 44: 69-76, 1951. Trop. Dis. Bull. 48: 629, 1951.

* Petrie, G. F.

Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3. p. 137-224.

Pirie, J.H.H.; and Grassett, E.

A comparison of the antigenic qualities of certain strains of avirulent *B. pestis*. South African Med. J. 15: 275-276, 1941. Biol. Abstr. #7342, 1942. Trop. Dis. Bull. 39: 311, 1942.

Pokrovskaya, M.

Culture of avirulent strain of *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 3-16, 1934.

VIII. Pasteurella pestis. Virulence.

Rakhinsky, B.

Comparative study of R and S forms of *B. pestis* and *B. pseudo-tuberculosis* in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 369-376, 1930.
Biol. Abstr. #16101, 1934.

- * Ramon, Gaston; Girard, Georges; and Richou, Rémy.
Influence of plague toxin of filtrates from cultures of *B. subtilis*, *Penicillium notatus* and *Actinomyces griseus*. Compt. Rend. Acad. Sci. 224: 1259-1261, 1947.
Trop. Dis. Bull. 44: 900, 1947.

Reitano, U.

Vitality, virulence and immunizing power of dried plague bacilli. Soc. Internaz. d. Microbiol. Boll. d. Sez. Ital. 9: 55-60, 1937.
Trop. Dis. Bull. 35: 215, 1938.

- * Revenstorff.
Report on result of virulence tests on old plague strains. Zent. f. Bakt. Abt. I. 52: 161-170, 1909.

- * Rookenmacher, Morris
Relationship of catalase activity to virulence in *Pasteurella pestis*. Proc. Soc. Exper. Biol. Med. 71: 99-101 1949.

Rowland, Sydney

The influence of cultivation in serum containing media upon the virulence and immunizing properties of the plague bacillus. J. Hyg. Plague Suppl. 3. p. 403-411, 1914.
Trop. Dis. Bull. 3: 205, 1914.

Rowland, Sydney

The influence of the medium in which *B. pestis* is propagated upon its virulence. J. Hyg. Plague Suppl. 3. p. 440-446, 1914.
Trop. Dis. Bull. 3: 206, 1914.

Rowland, Sydney

The relation of pseudo-tubercle to plague as evidenced by vaccination experiments. J. Hyg. Plague Suppl. 2. p. 350-357, 1912.
Trop. Dis. Bull. 1: 544-545, 1913.

Russo, Canio

Viability and virulence of plague in bone marrow. Rendiconti Ist. d. Sanita Pub. 2: 197-200, 1939.
Trop. Dis. Bull. 36: 964, 1939.

Seal, S. C.; and Mukherji, S. P.

Hydrolysate of casein as a fluid medium for the growth of *Pasteurella pestis*. Ann. Biochem. & Exper. Med., Calcutta. 10: 79-98, 1950.
Trop. Dis. Bull. 48: 985, 1951.

- * Sokhey, S. S.
The capsule of the plague bacillus. J. Path. & Bact. 51: 97-103, 1940.

- * Sokhey, S. S.
Experimental studies in plague. Part V. A method for measuring the virulence of plague cultures. Indian J. Med. Res. 27: 255-261, 1939.
Trop. Dis. Bull. 37: 420, 1940.

Sokhey, S. S.; and Chitre, G. D.

Immunity of wild rats of India against plague. Bull. Off. Internat. d'Hyg. Pub. 29: 2093-2096, 1937.
Trop. Dis. Bull. 35: 204, 1938.

Sokhey, S. S.; and Maurice, H.

Biologic method of standardization and protective power of some anti-plague vaccines measured by that method. Bull. Off. Internat. d'Hyg. Pub. 27: 1534-1541, 1935.
Trop. Dis. Bull. 33: 367, 1936.

Sokhey, S. S.; and Maurice, H.

Relative protective power of plague vaccines prepared with strains killed by heat or with avirulent living strains. Bull. Off. Internat. d'Hyg. Pub. 29: 505-513, 1937.
Trop. Dis. Bull. 34: 790, 1937.

VIII. *Pasteurella pestis*. Virulence

- Stevenson, W.D.H.; and Kapadia, R.J.
Experiments on the toxicity and
immunizing value of Haffkine's
anti plague vaccine. Indian J. Med.
Res. 12: 199-211, 1924-1925.
Trop. Dis. Bull. 21: 882-883, 1924.
- * Strong, R. P.; and Teague, Oscar
Studies on pneumonic plague and
plague immunization. VI. Bacterio-
logy. Philippine J. Sci.
7B: 187-202, 1912.
- * Strong, R. P.; and Teague, Oscar.
Studies on pneumonic plague and
plague immunization. VIII.
Susceptibility of animals to pneu-
monic plague. Philippine J. Sci.
7B: 223-228, 1912.
- Uriarte, Leopoldo; and
Villazón, N. M.
Conservation of vitality and
virulence in plague bacilli. Rev.
Inst. Bact. Buenos Aires.
8: 5-11, 1936.
Trop. Dis. Bull. 34: 413, 1937.
- * Villazón, N. M.
Virulence of the plague bacillus
in media with and without NaCl.
Rev. Inst. Bact. Buenos Aires.
4: 385-392, 1926.
Biol. Abstr. #12541, 1927.
- * Walker, D. L.; Foster, L. E.;
Chen, T. H.; Larson, A.; and
Meyer, K. F.
Studies of immunization against
plague. V. Multiplication and
persistence of virulent and avirulent
Pasteurella pestis in mice and guinea
pigs. J. Immun. 70: 245-252, 1953.
- * Wats, R. C.; and Puduval, T. K.
A study of some virulent and
avirulent strains of *Pasteurella*
pestis. Indian J. Med. Res.
27: 823-831, 1940.
Trop. Dis. Bull. 37: 827, 1940.

BIBLIOGRAPHY ON PASTEURILLA PESTIS AND PLAGUE

IX. PASTEURILLA PESTIS. VARIATION.

- Berlin, A. P.; and Borzenkov, A. K.
Rhamnose positive plus variants of *B. pestis* and the differential diagnostic value of a rhamnose medium. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 238-246, 1938. Biol. Abstr. #6101, 1943.
- Bessonova, A. A.
Another case of production of pigments in plague bacilli. Gior. d. Batteriol. i Immunol. 16: 754-760, 1936. Trop. Dis. Bull. 34: 789, 1937.
- Bessonova, A. A.
Further cases of pigment formation in *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 159-165, 1931. Biol. Abstr. #16066, 1934.
- Bessonova, A. A.
Method of culture of transitional-rough (OR) variants of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 195-197, 1936. English summary, p. 197-198.
- Bessonova, A. A.
Two variations of *B. pestis* in relation to glycerin. Vest. Mikro. Epidemiol. i Parazitol. 7: 250-253, 1928. English summary, p. 336-337. Biol. Abstr. #33042, 1930. Trop. Dis. Bull. 26: 637, 1929.
- Bessonova, A. A., and Lenskaya, G. N.
Broth-clouding variations of *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 270-279, 1929. English summary, p. 345-356. Trop. Dis. Bull. 27: 738, 1930.
- Bessonova, A. A.; and Lenskaya, G. N.
Dissociation of *Bacillus pseudotuberculosis rodentium* and of *Bacillus pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 221-239, 1931.
- * Bessonova, A. A.; and Lenskaya, G. N.
Studies on the dissociation of *B. pestis*. Broth-clouding variations of plague bacilli. Zent. f. Bakt. Abt. I. 119: 430-443, 1931. Biol. Abstr. #13762, 1932.
- Bessonova, A. A.; Lenskaya, G. N.; Molodtsova, P.; and Mossolova, O.
Spontaneous transmutation of *Bacillus pestis* into *Bacillus pseudotuberculosis rodentium pfeifferi*. Bull. Off. Internat. d'Hyg. Pub. 29: 2106-2125, 1937. Trop. Dis. Bull. 35: 213, 1938.
- Bessonova, A. A.; Lenskaya, G. N.; Molodtsova, P.; and Mossolova, O.
Spontaneous transmutation of *Bacillus pseudotuberculosis rodentium Pfeiffer* from *Bacillus pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 151-162, 1936. Trop. Dis. Bull. 34: 414, 1937.
- * Bessonova, A. A.; and Lokhov, M. G.
A case of pigment production by plague bacilli. Zent. f. Bakt. Abt. I. 119: 35-38, 1930-1931.
- Bessonova, A. A.; and Lokhov, M. G.
A case of pigment production by plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 109-112, 1930. English summary, p. 137. Biol. Abstr. #10865, 1932.

IX. Pasteurella pestis. Variation.

- Bessonova, A. A.; Semikoz, F.;
and Kotelnikov, G.
Atypical forms of colonies of *B.*
pestis. Rev. Mikrobiol. et
Epidemiol. 6: 394-401, 1927.
English summary, p. 472-73.
Biol. Abstr. #24148, 1931.
Trop. Dis. Bull. 25: 674, 1928.
- * Bhatnagar, S. S.
Bacteriological studies on
Pasteurella pestis and *Pasteurella*
pseudotuberculosis. I. The
morphology, growth and the dissocia-
tion of *P. pestis*. Indian J. Med.
Res. 28: 1-16, 1940.
- Bonopera, A.
Tolerance to various concentra-
tions of sodium chloride of some
pathogenic germs in relation to
their smooth and rough phases.
Boll. d. Soc. Ital. d. Microbiol.
14 5-8, 1942.
- * Bronfenbrenner J., and Korb, C.
On variants of *B. pestis* resis-
tance to lysis by bacteriophage.
Proc. Soc. Exper. Biol. Med.
23: 3-5, 1925-26.
- Burgess, A. S.
Virulence, immunity and bacterio-
logical variation in relation to
plague. J. Hyg. 30 165-179,
1930.
Biol. Abstr. #28276 1931.
Trop. Dis. Bull. 28 289, 1931.
- * Chen, T. H.
Behavior of *Pasteurella pestis* in
glycerin and rhamnose mediums.
J. Infec. Dis. 85 97-100, 1949.
- Devignat, R.
Chromogenic dissociation of the
E.V. strain. Rec. Travaux Soc.
Méd. Congo Belge.
No. 3. 120-127, 1945.
Trop. Dis. Bull. 42: 806, 1945.
- * Devignat, R.
Varieties of *P. pestis*; a new
hypothesis. Bull. World Health
Organization. 4: 247-263, 1951.
Trop. Dis. Bull. 49: 45, 1952.
- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der patho-
genen Mikroorganismen, by W. Kolle,
R. Kraus, and P. Uhlenhuth. 3d ed.
Jena. Gustav Fischer, 1928.
v. 4, p. 179-412.
- Donskov, G. D.; and Lokhov, M. G.
Effect of alcohol on morphologic,
biochemical and biologic characteris-
tics of plague bacilli. Vest.
Mikrobiol. Epidemiol. i Parazitol.
15: 187-193, 1936.
Trop. Dis. Bull. 34: 414, 1937.
- Favorisova, B. Y.
Morphologic changes of plague
bacilli produced by bacteriophage.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 17: 11-19, 1939.
Trop. Dis. Bull. 36: 965, 1939.
- * Garber E. D.; Noble, Kathryn; and
Carouso, N.
Genetic studies on the develop-
ment of streptomycin resistance in
Pasteurella pestis. J. Bact.
65 435-439, 1953.
- * Garber, E. D., Wolochow H.;
and Smith, Priscilla.
A solid medium for detecting
colonial variants of *Pasteurella*
pestis. J. Bact. 61: 523, 1951.
- * Girard Georges.
Characteristics of secondary
cultures obtained by bacteriophage
action on plague and mutation to the
pseudotuberculosis bacillus. Ann.
Inst. Pasteur. 73: 642-649, 1947.
Trop. Dis. Bull. 37: 830, 1940.

IX. Pasteurella pestis. Variation.

- * Girard, Georges.
Essential characters in strains of plague for use as living vaccines. Ann. Inst. Pasteur. 67: 365-367, 1941.
Trop. Dis. Bull. 39: 763, 1942.
- * Girard, Georges.
Pasteurella pestis mutants selected or induced by bacteriophage; eventual reversibility; theoretical and epidemiological importance. Compt. Rend. Acad. Sci. 234: 1590-1592, 1952.
Golem, D. S. B.; and Özsan, K.
Biochemical differences in Turkish strains of Pasteurella pestis. Turk. Bull. Hyg. Exper. Biol. 12: 29-51, 1952. In French, p. 52-55. Excerpta Med. IV. #736, 1953.
- * Gunnison, J. B.; and Lazarus, A. S.
Alteration of Pasteurella pestis bacteriophage following successive transfer on Pasteurella pseudotuberculosis and on Shigellae. Proc. Soc. Exper. Biol. Med. 69: 294-296, 1948.
- * Jawetz, E.; and Meyer, K. F.
Avirulent strains of Pasteurella pestis. J. Infect. Dis. 73: 124-143, 1943.
Joukov, Verejnikov, N. and Hworosrubina, M.
Immunology of plague. XIV. A method of producing antiplague vaccines of the X B type. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 52-58, 1940.
Biol. Abstr. #15017, 1941.
Klein, E.
Report on further observations of types of Bacillus pestis. Rept. Social Gov. Bd., London, 1903-04. 33(Suppl.): 368-387, 1905.
- Korobkova, E. I.
Action of bacteriophage on R and S variants of plague bacilli and appearance of avirulent strains. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 3-17, 1938.
- Korobkova, E. I.
Biology of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 163-184, 1936.
Trop. Dis. Bull. 34: 413, 1937.
- Korobkova, E. I.
Comparative study of pathogenic and vaccinating properties of EV strain of Girard and Robic and of 46S variant of plague bacillus. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 3-31, 1940.
- Korobkova, E. I.
Giant nucleated forms of plague bacilli in secondary cultures and their relation to bacteriophage. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 18-25, 1938.
- Korobkova, E. I.
Plague bacilli; yellow strain. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 424-431, 1940.
- Korobkova, E. I.
Study of B. pestis and B. pseudotuberculosis rodentium. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 435-457, 1929.
French summary, p. 484-486.
Biol. Abstr. #13795, 1932.
- Lenskaya, G. N.
Morphological variety of B. pseudotuberculosis rodentium Pfeiffer and B. pestis. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 254-263, 1928. English summary, p. 337-338.
Biol. Abstr. #12121, 1930.
Trop. Dis. Bull. 26: 641, 1929.

IX. Pasteurella pestis. Variation.

- * Levine, H. B.; and Garber, E. D.
Detection of rough dissociants of Pasteurella pestis with tetrazolium chloride. J. Bact. 60: 508, 1950.
- Macchiavello, Atilio
Atypical variants of the plague bacillus from northeastern Brazil. Arq. de Hig. Rio de Janeiro, 11(2): 103-108, 1941.
Trop. Dis. Bull. 40: 48, 1943.
- Macchiavello, Atilio
Study of the variability of the plague bacillus with special reference to morphology, colony characteristics, virulence, toxicity, and biochemical properties. Arq. de Hig. Rio de Janeiro, 11(2) 73-102, 1941.
Trop. Dis. Bull. 40: 47, 1943.
- Macchiavello, Atilio.
Virulence of Pasteurella pestis; changes under various experimental conditions. Arq. de Hig. Rio de Janeiro. 12: 33-39, 1942.
- * Markl, J. G.
The question of mutation in plague bacilli. Zent. f. Bakt. Abt. I. 74: 529-540, 1914.
Trop. Dis. Bull. 5: 30, 1915.
- Marumoto, M.
Studies on Pasteurella pestis. II. On the relationship between the fermentation reaction of glycerine by the strains of Pasteurella pestis and their geographical distribution. Jap. J. Exper. Med. 20: 285-294, 1949.
Biol. Abstr. #1361, 1952.
Trop. Dis. Bull. 48: 36, 1951.
- Molodtsova, P.
Atypical forms of colonies of B. pestis. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 285-288, 1928.
Biol. Abstr. #12127, 1930.
- Pastricha, C. L.; and Panja, G.
"Swarming colonies" of Pasteurella pseudotuberculosis. Indian Med. Gaz. 77: 27, 1942.
- Pirie, J. H. H.
Plague studies. II. Microbic dissociation of B. pestis and its importance in connection with the preparation of plague vaccine and serum. Publ. South African Inst. Med. Res. 4: 191-230, 1929.
Biol. Abstr. #20743, 1931.
Trop. Dis. Bull. 27: 738, 1930.
- * Petrie, G. F.
Bacillus pestis. In: Great Britain. Medical Research Council. A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.
- Pokrovskaya, M.
Culture of avirulent strain of B. pestis. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 3-16, 1934.
- * Pokrovskaya, M.
Cytologic observations on dissociation process of B. pestis. Zent. f. Bakt. Abt. I. 119: 353-361, 1931.
- * Pollitzer, R.
Bacteriology. In: Plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936. p. 59-61.
- * Pollitzer, R.
Plague studies. 2. The plague bacillus. Bull. World Health Organization. 5: 73-108, 1952.
- Preis, Hugo
Two peculiar varieties of the plague bacillus. Ertesito. 43: 188-204, 1926.
Biol. Abstr. #2256, 1928.

IX. *Pasteurella pestis*. Variation.

* Preisz, Hugo

Two remarkable variants of the plague bacillus. Zent. f. Bakt. Abt. I. 101: 65-77, 1927.
Biol. Abstr. #15654, 1930.
Trop. Dis. Bull. 24: 457, 1927.

* Reynes, V.

An atypical strain of plague bacillus. Ann. Inst. Pasteur. 78: 288-290, 1950.
Trop. Dis. Bull. 47: 846, 1950.

Tumanski, V. M.

Variability of plague bacilli under influence of bacteriophage; transformation of *Bacillus pestis* into *Bacillus pseudotuberculosis rodentium*. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 287-298, 1939.

* Wats, R. C., Wagle, P. M.; and Puduval, T. K.

A serological study of some strains of *Pasteurella pestis*. Indian J. Med. Res. 27: 375-387, 1939.

* Won, W. D.

The production of "giant" cells of *Pasteurella pestis* by treatment with camphor. J. Bact. 60: 102-104, 1950.

Zlatogorov, S. I.; and

Mogilevskaja, B. I.

The composition of cultures of *B. pseudotuberculosis rodentium*, their variation and their affinity with *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 264-279, 1928. English summary, p. 338.
Biol. Abstr. #12144, 1930.

* Zlatogorov, S. I.; and

Mogilevskaja, B. I.

Constitution of cultures of pseudo-tuberculosis bacillus of rodents; variability and close relation to culture of *Bacillus pestis*. Ann. Inst. Pasteur. 42: 1615-1634, 1928.

Zlatogorov, S. I., and

Mogilevskaja, B. I.

Identity of bacillus of pseudo-tuberculosis of rodents and *Bacillus pestis*. Compt. Rend. Soc. Biol. 99: 506-507, 1928.
Trop. Dis. Bull. 26: 99, 1929.

BIBLIOGRAPHY ON PASTEURELLA PESTIS AND PLAGUE

X. PASTEURELLA PESTIS BACTERIOPHAGE.

- Advier, M.
Characteristics of a factor which lyses plague bacilli in human blood. *Compt. Rend. Soc. Biol.* 110: 161-163, 1932.
Biol. Abstr. #1258, 1934.
Trop. Dis. Bull. 29: 679, 1932.
- Advier, M.
Existence of a factor lytic for plague bacilli in the blood of a plague convalescent. *Compt. Rend. Acad. Sci.* 194: 1397-1399, 1932.
Biol. Abstr. #6211, 1933.
- * Advier, M.
Study of a plague bacteriophage. *Bull. Soc. Path. Exot.* 26: 94-99, 1933.
Trop. Dis. Bull. 30: 531, 1933.
- Alayon, F.
Plague therapy by bacteriophage; present status of question. *Ann. Paulist. de Med. e Cir.* 30: 569-572, 1935.
- Bessonova, A. A., Molodtsova, P., Mossolova, O. et al.
Concerning the differentiation of *B. pestis* and *B. pseudotuberculosis rodentium* (Pfeiffer) by means of certain strains of plague bacteriophage. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 17: 223-231, 1938.
Biol. Abstr. #5650, 1943.
- * Bronfenbrenner, J.; and Korb, C.
On variants of *B. pestis* resistant to lysis by bacteriophage. *Proc. Soc. Exper. Biol. Med.* 23: 3-5, 1925-26.
- * Bronfenbrenner, J.; Muckenfuss, R.S.; and Korb, C.
Studies on the bacteriophage of *B. pestis*. VI. On the virulence of the overgrowth in the lysed cultures of *B. pestis caviae*. *J. Exper. Med.* 44: 607-622, 1926.
- * Cavanaugh, D. C.; and Quan, S. F.
Rapid identification of *Pasteurella pestis* using specific bacteriophage lyophilized on strips of filter paper. *Amer. J. Clin. Path.* 23: 619-620, 1953.
- * Compton, Arthur
Immunization in experimental plague by subcutaneous inoculation with bacteriophage. comparison of plain and formaldehyde-treated phage-lysed plague vaccine. *J. Infec. Dis.* 46: 152-160, 1930.
- * Compton, Arthur
Sensitization and immunization with bacteriophage in experimental plague. *J. Infec. Dis.* 43: 448-457, 1928.
- * Compton, Arthur
Studies on immunity in experimental plague. *Ann. Inst. Pasteur.* 45: 754-767, 1930.
- Couvy, L.
The bacteriophage of plague bacilli and its therapeutic use. *Médecine.* 13: 909-913, 1932.
- Couvy, L.
The bacteriophage of Yersin's bacillus. *Compt. Rend. Soc. Biol.* 109: 1344-1346, 1932.
Biol. Abstr. #1267, 1934.
Trop. Dis. Bull. 29: 677, 1932.

X. *Pasteurella pestis* bacteriophage.

Couvy, L.

The bacteriophage of Yersin's bacillus; behavior in vivo.
Compt. Rend. Soc. Biol.
110: 38-41, 1932.
Biol. Abstr. #1263, 1934.
Trop. Dis. Bull. 29: 677, 1932.

* Couvy, L.

Note on a factor lytic for plague bacilli, isolated from the stools of convalescents of plague. Bull. Soc. Path. Exot.
23: 943-950, 1930.
Biol. Abstr. #28521, 1931.
Trop. Dis. Bull. 28: 389, 1931.

* Couvy, L., Lambert, L., and Dufour, V.

Transmissible lytic principle, so-called bacteriophage of Yersin's bacilli. Ann. Inst. Pasteur.
48: 541-593, 1932.
Trop. Dis. Bull. 29: 676, 1932.

* Couvy, L., and Popoff.

Treatment of plague by bacteriophage. Bull. Soc. Path. Exot.
23: 618-629, 1936.
Trop. Dis. Bull. 28: 386, 1931.

* Desdonne, A. and Otto, R.

Pest. In Handbuch der pathogenen Mikroorganismen, by W. Kolle, E. Kraus, and P. Uhlenhuth. 3d ed. Jena: Gustav Fischer, 1928.
v. 4, p. 179-402.

Doorenbos, W.

Observations for guidance in the test of P. C. Flu for immunization against plague, together with some experiences with plague and plague bacteriophage. Nederlandsch. Tijdschr. Geneesk.
73: 5472-5482, 1929.
Biol. Abstr. #20581, 1931.
Trop. Dis. Bull. 27: 737, 1930.

Doorenbos, W.

Researches on pathogenesis of plague. Nederl. Tijdschr. v. Geneesk. 74: 880-893, 1930.
Biol. Abstr. #8285, 1931.
Trop. Dis. Bull. 27: 730, 1930.

* Estrade, M. F.

Bacteriophage in the treatment of bubonic plague. Bull. Soc. Path. Exot. 27: 609-611, 1934.
Trop. Dis. Bull. 31: 884, 1934.

Favorisova, B. Y.

Morphologic changes of plague bacilli produced by bacteriophage. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 11-19, 1939.
Trop. Dis. Bull. 36: 965, 1939.

Flu, P. C.

The bacteriophage. A historical and critical survey of 25 years research. Acta Leiden Scholae Med. Trop. 17: 1-201, 1946.
Biol. Abstr. #29577, 1949.

Flu, P. C.

Immunization of rats against plague by concentrated bacteriophage prepared from virulent plague bacilli. Nederl. Tijdschr. v. Geneesk. 73: 4010-4020, 1929.
Biol. Abstr. #8006, 1931.
Trop. Dis. Bull. 27: 736, 1930.

Flu, P. C.

Immunization of rats against plague by means of bacteriophage lysates of concentrated suspensions from virulent plague bacteria. J. Trop. Med. 32: 353-356, 1929.
Biol. Abstr. #1517, 1931.
Trop. Dis. Bull. 27: 736, 1930.

Flu, P. C.

Immunization of rats against plague with extracts of virulent plague bacilli. Geneesk. Tijdschr. f. Nederl. Indië. 69: 1060-1072, 1929.

X. *Pasteurella pestis* bacteriophage.

Flu, P. C.

Immunization of rats by means of concentrated suspensions of virulent plague bacilli dissolved by anti-plague bacteriophage. *Acta Leidensia Scholae Med. Trop.* 9: 1-20, 1934.
Biol. Abstr. #18826, 1936.

* Flu, P.

Immunization of rats by means of concentrated suspension of virulent plague bacilli lysed by antiplague bacteriophage. *Bull. Soc. Path. Exot.* 26: 796-806, 1933.
Trop. Dis. Bull. 31: 34, 1934.

Flu, P. C.

Immunization of rats against plague by use of extracts of virulent plague bacilli in solvent of plague bacteriophage. *Arch. f. Schiffs. u. Tropen-Hyg.* 33: 223-232, 1929.
Biol. Abstr. #17445, 1931.
Trop. Dis. Bull. 27: 736, 1930.

Flu, P. C.

Immunization of white rats with aqueous extracts of virulent plague bacilli. *Compt. Rend. Soc. Biol.* 100: 835-837, 1929.
Trop. Dis. Bull. 26: 633, 1929.

Flu, P. C.

Immunization of white rats with plague bacilli lysed by anti plague bacteriophage. *Compt. Rend. Soc. Biol.* 100: 837-838, 1929.
Trop. Dis. Bull. 26: 638, 1929.

Flu, P. C.

Nature of bacteriophage. *Compt. Rend. Soc. Biol.* 96: 1148-1149, 1927.
Biol. Abstr. #20085, 1929.

Flu, P. C.

Plague bacteriophage and prophylaxis and treatment of experimental plague. *Geneesk. Tijdschr. v. Nederl. Indië.* 69: 958-966, 1929.
Trop. Dis. Bull. 27: 737, 1930.

* Flu, P. C.

Plague immunization in rats with phage extracts of virulent plague bacteria; bacteriophage as a solvent. *Zent. f. Bakt. Abt. I.* 113: 473-480, 1929.
Biol. Abstr. #8783, 1933.

Flu, P. C.

Preventive inoculation against plague with bacteriophage from concentrated suspensions of plague bacilli. *Nederl. Tijdschr. f. Geneesk.* 1: 2102-2115, 1929.

Flu, P. C., and Flu, H.

On bacteriophages against plague, occurring in canal water and sewage in the Netherlands and on the origin of these phages. *Acta Leiden.* 18: 14-29, 1947.

* Fonquernie, J.

Treatment of plague by bacteriophage. *Bull. Soc. Path. Exot.* 25: 677-678, 1932.

Girard Georges.

Consideration of the treatment of plague with bacteriophage. *Bull. Soc. Path. Exot.* 23: 936-942, 1930.
Trop. Dis. Bull. 28: 386, 1931.

Girard Georges

Pasteurella pestis mutants selected or induced by bacteriophage; eventual reversibility; theoretical and epidemiological importance. *Compt. Rend. Acad. Sci.* 234: 1590-1592, 1952.

X. *Pasteurella pestis* bacteriophage.

- Girard, Georges.
Presence of bacteriophage in *Xenopsylla cheopis* in course of small plague epidemic at Tananarive. *Compt. Rend. Soc. Biol.* 120: 333-334, 1935.
Trop. Dis. Bull. 33: 370, 1936.
- * Girard, Georges
Sensitiveness of plague and pseudo-tuberculosis bacilli to bacteriophages of the colic-dysentery group. *Ann. Inst. Pasteur.* 69: 52-54, 1943.
Trop. Dis. Bull. 41: 36, 1949.
- Gulliny, R.
Bacteriophage therapy of pneumonic plague in Madagascar. *Marseille Méd.* 2: 641-653, 1931.
- * Gunnison, J. B.
The effect of temperature on lysis by bacteriophage of *Pasteurella pseudotuberculosis* and *Pasteurella pestis*. *Bact. Proc.* 1950 47, 1950.
- * Gunnison, J. B., Larson, A., and Lazarus, A. S.
Rapid differentiation between *Pasteurella pestis* and *Pasteurella pseudotuberculosis* by action of bacteriophage. *J. Infec. Dis.* 88: 254-255, 1951.
- * Gunnison, J. B., and Lazarus, A. S.
Alteration of *Pasteurella pestis* bacteriophage following successive transfer on *Pasteurella pseudotuberculosis* and on shigellae. *Proc. Soc. Exper. Biol. Med.* 69: 294-296, 1943.
- * Gunnison, J. B., Shevsky, M. C., Zion, V. K., and Abbott, J.
Lysis of *Pasteurella pseudotuberculosis* by bacteriophage. *J. Infec. Dis.* 88: 187-193, 1951.
- * Harvey, W. F.
Bacteriophage with special reference to plague and cholera. *Trop. Dis. Bull.* 30: 331-342; 411-422, 1933.
- Haenduroy, P., and Ghalib, A.
Presence of antiplague bacteriophage in Paris. *Compt. Rend. Soc. Biol.* 100: 1085-1086, 1929.
Trop. Dis. Bull. 26: 638, 1929.
- d Herelle, F.
Treatment of bubonic plague by bacteriophage. *Presse Méd.* 33: 1393-1394, 1925.
Trop. Dis. Bull. 23: 182, 1926.
- d Herelle, F.
Treatment of plague with bacteriophage. *Médecine (Suppl.)* 17: 23-32, 1936.
- Jacobson, L. M.
The isolation of bacteriophage from vegetables and fruit. *Zhur. Mikrobiol. Epidemiol. i Immunobiol.* 17: 534-535, 1936.
Chem. Abstr. 31: 6689¹.
- Joukov Verejnikov, N., and Faworissova, B.
Studies on the nature and significance of bacteriophage phenomena. III. Action of bacteriophage in vivo on plague bacilli. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 14: 119-204, 1935.
Trop. Dis. Bull. 33: 371, 1936.
- Korobkova, E. I.
Action of bacteriophage on R and S variants of plague bacilli and appearance of avirulent strains. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 16: 3-17, 1938.
- Korobkova, E. I.
Giant nucleated forms of plague bacilli in secondary cultures and their relation to bacteriophage. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 16: 18-25, 1938.

X. Pasteurella pestis bacteriophage.

- * Lazarus, A. S.; and Gunnison, J. B.
Action of Pasteurella pestis bacteriophage on strains of Pasteurella, Salmonella and Shigella. J. Bact. 53: 705-714, 1947.
- Lépine, P.; and Bilfinger, F.
Existence of lytic principle for plague bacilli in serum of rats in Athens. Compt. Rend. Soc. Biol. 115: 131-132, 1934.
- * Macchiavello, Atilio
Evaluation of new drugs for the treatment and prevention of plague, especially bubonic. Bol. Ofic. Sanit. Panamer. 23: 328-355, 1949.
- Madras. Director of Public Health.
Report of the director of public health for 1933. Madras, Gov. Press, 1934. 169p. Plague research, p. 45-46. Research on bacteriophage, p. 80-82.
Trop. Dis. Bull. 32: 453, 1935.
- Naidu, B. P. B. and Avaru, C. R.
Bacteriophage in treatment of plague. Indian J. Med. Res. 19: 37-48, 1932.
Biol. Abstr. #6218, 1933.
Trop. Dis. Bull. 29: 515, 1932.
- * P An. H. S., Tchan, Y. T.; and Pochon, J.
A cytological study of the effect of specific bacteriophage on Past. pestis. I. Morphological changes in the nuclear apparatus. Ann. Inst. Pasteur. 36: 462-470, 1949.
Trop. Dis. Bull. 46: 1029, 1949.
- * P An. H. S., Tchan, Y. T.; and Pochon, J.
The cytological changes produced in Past. pestis by specific bacteriophage. II. A study of the cell when stained by Robinson's method. Ann. Inst. Pasteur. 38: 291-292, 1950.
Trop. Dis. Bull. 47: 247, 1950.
- * Petrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.
- Pirie, J. H. H.
Plague studies. I. Bacteriophage in the prophylaxis and treatment of experimental plague. Publ. South African Inst. Med. Res. 4: 191-230, 1929.
Biol. Abstr. #20743, 1931.
Trop. Dis. Bull. 27: 738, 1930.
- Pons, R.
Effect of repeated injections of dilute bacteriophage on the development of experimental plague. Compt. Rend. Soc. Biol. 114: 1066-1068, 1933.
Trop. Dis. Bull. 31: 308, 1934.
- Pons, R.
Plague bacteriophage in vivo. Compt. Rend. Soc. Biol. 110: 184-186, 1932.
Biol. Abstr. #1286, 1934.
Trop. Dis. Bull. 29: 678, 1932.
- * Pons, R.
Plague bacteriophage in vivo in man and laboratory animals. Bull. Soc. Path. Exot. 25: 437-447, 1932.
Trop. Dis. Bull. 29: 673, 1932.
- Rakhitsky, B.
Comparative study of R and S forms of B. pestis and B. pseudotuberculosis in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 369-376, 1930.
Biol. Abstr. #16101, 1934.
- * Robic, J.
Note on the treatment of plague by bacteriophage. Bull. Soc. Path. Exot. 25: 756-760, 1933.
Trop. Dis. Bull. 31: 32, 1934.

X. *Pasteurella pestis* bacteriophage.

- * Sugino, Tameji
On the bacteriophage against
the plague bacillus. Kitasato Arch.
Exper. Med. 9: 72-81, 1932.
Biol. Abstr. #6275, 1936.
- Suknev, V. V. et al.
Combined treatment of plague with
bacteriophage and various types of
antiserum. Vest. Mikrobiol.
Epidemiol. i Parazitol.
14: 387-392, 1935.
- Tumanski, V. M.
Variability of plague bacilli
under influence of bacteriophage;
transformation of *Bacillus pestis*
into *Bacillus pseudotuberculosis*
rodentium. Vest. Mikrobiol.
Epidemiol. i Parazitol.
14: 237-293, 1939.
- Tumanski, V. M. and Yashchuk, A.P.
On the application of plague bac-
teriophage in the diagnosis of *B.*
pestis. Vest. Mikrobiol. Epidemiol.
i Parazitol. 14: 270-277, 1939.
Biol. Abstr. #5049, 1940.
- Villazon, N. M.
Bacteriophage effective against
the plague bacillus. Compt. Rend.
Soc. Biol. 89: 754-756, 1923.
Trop. Dis. Bull. 21: 70, 1924.
- Villazon, N. M.
Plague bacillus bacteriophage.
Rev. Asoc. Med. Argent.
36: 453-465, 1923.
- Zhukov Verezchnikov, N. N.; and
Favorisova, B. Y.
Nature and significance of
bacteriophage phenomena; action of
bacteriophage in vivo on plague
bacilli. Vest. Mikrobiol. Epidemiol.
i Parazitol. 14: 199-204, 1935.

BIBLIOGRAPHY ON PASTEURELLA PESTIS AND PLAGUE

XI. PASTEURELLA PESTIS. RELATIONSHIPS TO PASTEURELLA PSEUDOTUBERCULOSIS.

- * Arkwright, J. A.
Importance of motility in bacteria; in classification and diagnosis, with special reference to *B. pseudotuberculosis rodentium*. *Lancet*. 1: 13-14, 1927.
- Battelli, C.
Resistance of pseudotuberculosis culture to various physical and chemical agents. *Boll. Soc. Ital. d. Med. e Ig. Trop.* 2(3): 55-58, 1943.
- Berlin, A. L.
Serum agglutination reaction with plague bacilli. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 9: 10-53, 1930.
Trop. Dis. Bull. 28: 392, 1931.
- Bessonova, A. A.
Nutrient deficient acid agar as differentiating medium for *Bacillus pestis* and *Bacillus pseudotuberculosis rodentium* (Pfeiffer). *Vest. Mikrobiol. Epidemiol. i Parazitol.* 8: 264-269, 1929.
Biol. Abstr. #13761, 1932.
Trop. Dis. Bull. 27: 739, 1930.
- Bessonova, A. A.
Peptone water and rhamnose as differentiating medium for *Bacillus pestis* and *B. pseudotuberculosis rodentium* (Pfeiffer). *Vest. Mikro. Epidemiol. i Parazitol.* 8: 458-461, 1929.
Trop. Dis. Bull. 27: 739, 1930.
- * Bessonova, A. A.
Peptone water and rhamnose as differentiating medium for *Bacillus pestis* and *B. pseudotuberculosis rodentium* (Pfeiffer). *Zent. f. Bakt. Abt. I.* 119: 32-35, 1930.
- Bessonova, A. A. et al.
The application of synthetic medium in the differentiation of *B. pestis* and *B. pseudotuberculosis rodentium*. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 19: 221-225, 1940.
- Bessonova, A. A.; Egorov, A.; Kozlovskaya, A.; and Malnikova, Z.
Differentiation of *Bacillus pestis* and *Bacillus pseudotuberculosis rodentium* by culture of small, gradually decreasing quantities of bacterial bodies on peptoneless agar. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 19: 219-220, 1940.
- Bessonova, A. A., and Konovalova, S.
Importance of glycerine medium in differential diagnosis of *B. pestis* and *B. pseudotuberculosis rodentium* of Pfeiffer. *Compt. Rend. Premier Congrès Antipest, URSS, 1927.* p. 289-302. French summary, p. 482.
Biol. Abstr. #1767, 1931.
- Bessonova, A. A.; and Lenskaya, G. N.
Dissociation of *Bacillus pseudotuberculosis rodentium* and of *Bacillus pestis*. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 10: 221-239, 1931.
- Bessonova, A. A.; Lenskaya, G. N.; Molodtsova, P.; and Mossolova, O.
Spontaneous transmutation of *Bacillus pestis* into *Bacillus pseudotuberculosis rodentium pfeifferi*. *Bull. Off. Internat. d'Hyg. Pub.* 29: 2106-2125, 1937.
Trop. Dis. Bull. 35: 213, 1938.

XI. Relationships to *Pasteurella pseudotuberculosis*.

- Bessonova, A. A.; Lenskaya, G. N.;
Molodtsova, P.; and
Mossolova, O.
Spontaneous transmutation of
Bacillus pestis into *Bacillus pseudo-*
tuberculosis rodentium Pfeiffer.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 15: 151-162, 1936.
Trop. Dis. Bull. 34: 44, 1937.
- Bessonova, A. A.; Molodtsova, P.;
Mossolova, O. et al.
Concerning the differentiation of
B. pestis and *B. pseudotuberculosis*
rodentium (Pfeiffer) by means of
certain strains of plague bacterio-
phage. Vest. Mikrobiol. Epidemiol.
i Parazitol. 17: 228-231, 1938.
Biol. Abstr. #5650, 1943.
- Bessonova, A. A.; Semikova, F.;
and Kotelnikov, G.
Atypical forms of colonies of
B. pestis. Vest. Mikrobiol.
Epidemiol. i Parazitol. 6: 394-401,
1927. English summary p. 472-73.
Biol. Abstr. #34148, 1931.
Trop. Dis. Bull. 25: 674, 1928.
- * Bhatnagar, S. S.
Bacteriological studies on
Past. pestis and *Past. pseudo-*
tuberculosis. I. The morphology,
growth and the dissociation of *Past.*
pestis. II. The serology of *Past.*
pestis and *Past. pseudotuberculosis*.
Indian J. Med. Res. 28: 1-42, 1940.
- * Blanc, Georges; and Baltazard, Marcel.
Behavior of certain pathogenic
bacteria in rat flea, *Xenopsylla*
cheopis: bacilli of *pseudotubercu-*
losis in rodents. Compt. Rend.
Soc. Biol. 138: 811-812, 1944.
- Bokalo, A. E.; Vedishtcheff, S. V. et al.
Symbiosis of *Bacillus pestis* and
Bacillus pseudotuberculosis rodent-
tium (Pfeiffer) with *Sarcina*.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 10: 241-247, 1931.
Biol. Abstr. #16067, 1934.
- Bokalo, E. A.; Vedishtscheff, S. V.;
Sabinin, A.; Jegorow, A.; and
Grikurow, W.
Symbiosis of *Bacillus pestis* and
Bacillus pseudotuberculosis rodent-
tium (Pfeiffer) with *Sarcinae*.
Zent. f. Bakt. Abt. I. 125: 32-37,
1932.
- Boncinelli, U.; and Aradas, A.
Relation between *Pasteurella*
pestis and *Bacillus pseudotuberculosis*
rodentium with regard to cultural
methods of differentiation. Boll.
d. Ist. Sieroterap. Milanese.
12: 346-362, 1933.
Trop. Dis. Bull. 31: 33, 1934.
- Boquet, P.
Dissociation of R and S variants
of *coccobacillus* of rodent *pseudo-*
tuberculosis. Compt. Rend. Soc.
Biol. 122: 868-871, 1936.
- Boquet, A.; and Dujardin-Beaumetz, E.
Relation of plague bacillus to
Bacillus pseudotuberculosis of rodents;
experiments. Compt. Rend. Soc. Biol.
100: 625-627, 1929.
Trop. Dis. Bull. 26: 639, 1929.
- Castellani, A.
Brief note on culture medium used
in differentiation between *Bacillus*
pestis and *Bacillus pseudotuberculosis*
rodentium. J. Trop. Med.
42: 158, 1939.
Trop. Dis. Bull. 36: 963, 1939.
- Castellani, A.
Method of differentiating *P. pestis*
and *P. pseudotuberculosis rodentium*.
Bull. Off. Internat. d'Hyg. Pub.
30: 2750, 1938.
- * Cavanaugh, D. C.; and Quan, S. F.
Rapid identification of *Pasteu-*
rella pestis using specific bacterio-
phage lyophilized on strips of filter
paper. Amer. J. Clin. Path.
23: 619-620, 1953.

XI. Relationships to Pasteurella pseudotuberculosis.

- Colas-Belcour, J.
Value of glycerinated medium in differential diagnosis of cultures of plague bacillus and of bacillus of pseudotuberculosis of rodents. Compt. Rend. Soc. Biol. 94: 238-240, 1926.
Trop. Dis. Bull. 23: 619, 1926.
- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der pathogenen Mikroorganismen, by W. Kolle, R. Kraus.; and F. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.
- * Dudtschenko, I. S.
The conditions which determine polar staining, polymorphism and involution forms among pseudoplague bacilli. Zent. f. Bakt. Abt. I. 75: 264-272, 1914.
Trop. Dis. Bull. 7: 181, 1916.
- Fabiani, G.
New means of differentiation between plague bacillus and bacillus of rodent pseudotuberculosis. Compt. Rend. Soc. Biol. 113: 1198-1200, 1933.
- Faddeeva, T. D.
Serologic interrelationships between various strains of plague bacilli and pseudotuberculosis bacteria. Vest. Mikrobiol. Epidem. i Parazitol. 18: 44-79, 1940.
- * Fauconnier, J.
The decomposition of urea in Ferguson synthetic medium by Past. pseudotuberculosis, new reaction for differentiating the etiologic agents of plague and pseudotuberculosis. Ann. Inst. Pasteur. 79: 104-105, 1950.
- Favorisova, B. Y.
Motility of Bacterium pseudotuberculosis rodentium. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 65-76, 1938.
- * Girard, Georges
Absence of glucidolipidic antigen in plague bacillus and pseudotuberculosis bacillus of rodents. Compt. Rend. Soc. Biol. 135: 1577-1579, 1941.
Biol. Abstr. #24561, 1948.
- * Girard, Georges
Characteristics of secondary cultures obtained by bacteriophage action on plague and mutation to the pseudotuberculosis bacillus. Ann. Inst. Pasteur. 73: 642-649, 1947.
Trop. Dis. Bull. 37: 830, 1940.
- * Girard, Georges
New characters differentiating plague and pseudotuberculosis bacilli from Pasteurella. Ann. Inst. Pasteur. 68: 476-478, 1942.
Trop. Dis. Bull. 40: 139, 1943.
- Girard, Georges.
Nitrite reaction for the separation of the plague bacillus from the bacillus of pseudotuberculosis. Compt. Rend. Soc. Biol. 133: 244-246, 1940.
Trop. Dis. Bull. 37: 422, 1940.
- * Girard, Georges.
The toxin of Pasteurella pseudotuberculosis; its relationship to the toxin of Pasteurella pestis. Ann. Inst. Pasteur. 79: 33-43, 1950.
Bull. Hyg. 26: 87, 1951.
- * Gunnison, J. B.
The effect of temperature on lysis by bacteriophage of Pasteurella pseudotuberculosis and Pasteurella pestis. Bact. Proc. 1950: 47, 1950.
- * Gunnison, J. B.; Larson, A.; and Lazarus, A. S.
Rapid differentiation between Pasteurella pestis and Pasteurella pseudotuberculosis by action of bacteriophage. J. Infec. Dis. 88: 254-255, 1951.

XI. Relationships to Pasteurella pseudotuberculosis.

- Gunnison, J. B.; and Lazarus, A. S.
Alteration of Pasteurella pestis bacteriophage following successive transfer on Pasteurella pseudotuberculosis and on Shigellae. Proc. Soc. Exper. Biol. Med. 69: 294-296, 1948.
- * Gunnison, J. B.; Shevsky, M. C.; Zion, V. K.; and Abbott, J.
Lysis of Pasteurella pseudotuberculosis by bacteriophage. J. Infec. Dis. 88: 187-193, 1951.
- * Haas, V. H.
Study of pseudotuberculosis rodentium recovered from rat. Pub. Health Repts. 53: 1033-1038, 1938.
- Haim, A.; and Kemal
Bacillus pseudotuberculosis rodentium cultured from disease foci in man. Beitr. z. Klin. d. Tuberk. 68: 128-133, 1928.
- Himmelfarb, J. K.
Differential diagnosis between Bacterium pestis and Bacillus pseudotuberculosis rodentium with carbohydrate cultures. Vest. Mikrobiol. Epidemiol. i Parazitol. 6: 82-85, 1927.
Biol. Abstr. #13786, 1932.
- * Himmelfarb, J. K.
Differential diagnosis between the pest bacillus and B. pseudotuberculosis rodentium on carbohydrate medium. Zent. f. Bakt. Abt. I. 103: 39-41, 1927.
Biol. Abstr. #11580, 1928.
- * Himmelfarb, J. K., and Skrotzky, E.W.
Differentiation between Bacillus pestis and Bacillus pseudotuberculosis rodentium on carbohydrate culture media. Zent. f. Bakt. Abt. I. 120: 196-199, 1931.
Biol. Abstr. #4546, 1932.
- * Ivanovsky, N.; and Sassykina, T.
Schardinger's reaction for differentiation of Bacillus pestis and Bacillus pseudotuberculosis. Zent. f. Bakt. Abt. I. 117: 535-539, 1930.
Biol. Abstr. #14877, 1931.
Trop. Dis. Bull. 28: 391, 1931.
- Ivanovsky, N.; and Sassykina, T.
Schardinger's reaction in differentiation of Bacillus pestis and Bacillus pseudotuberculosis rodentium (Pfeiffer). Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 72-76, 1930.
Biol. Abstr. #13792, 1932.
Trop. Dis. Bull. 28: 391, 1931.
- Kauffmann, F.
Comparative studies of pseudotuberculosis, paratyphoid, pasteurella and plague bacilli. Zeitschr. f. Hyg. u. Infektionskr. 114: 97-105, 1932.
- Konovalova, S. F.
Denitrification by cultures of B. pestis and B. pseudotuberculosis rodentium. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 513-516, 1930.
Biol. Abstr. #16089, 1934.
- Korobkova, E. I.
Changes of hydrogen ion concentration and phenomena of reduction observed during development of Bacillus pestis and Bacillus pseudotuberculosis rodentium. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 435-457, 1929. French summary, p. 484-486.
Trop. Dis. Bull. 27: 739, 1930.
- Korobkova, E.
Hemolytic properties of B. pestis and B. pseudotuberculosis. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 3-18, 1940.
Biol. Abstr. #15101, 1941.
- Korobkova, E. I.
Study of B. pestis and B. pseudotuberculosis rodentium. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 435-457, 1929.
Biol. Abstr. #13795, 1932.

XI. Relationships to *Pasteurella pseudotuberculosis*.

Kraynova, A. N.

Significance of rhamnose for differentiation of plague bacilli and *Bacillus pseudotuberculosis rodentium* (Pfeiffer). Vest. Mikrobiol. Epidem. i Parazitol. 18: 91-101, 1940. Chem. Abstr. 36: 2286.

* Kurauchi, K.

Differentiation of *B. pestis* from allied organisms by means of their biological properties on plague bacillus-like strain isolated from suslik; plague studies III. Kitasato Arch. Exper. Med. 8: 45-59, 1931.

* Kurauchi, K.

Fermentation reactions of *B. pseudotuberculosis*, *B. pestis* and hemorrhagic septicemia group. Kitasato Arch. Exper. Med. 8: 89-98, 1931. Biol. Abstr. #11405, 1933.

Kurokawa, M.

Experimental *pseudotuberculosis* by *B. pseudotuberculosis rodentium* (Pfeiffer). An experiment on so-called living bacilli-immunity. Saikingaku Zasshi. 541: 62-72, 1941. Biol. Abstr. #22140, 1941.

Kurokawa, M.

Studies on the experimental *pseudotuberculosis* changes by *B. pseudotuberculosis rodentium* (Pfeiffer) in mice. I. On the behavior of the bacillus with a special reference to the relation of the infection. Saikingaku-Zasshi. 526: 11-34, 1939. Biol. Abstr. #7056, 1940.

Kurokawa, M.

Studies on the experimental *pseudotuberculosis* by *B. pseudotuberculosis rodentium* (Pfeiffer) in mice. II. Chiefly on the infection by intranasal route. Saikingaku-Zasshi. 527: 53-67, 1940. Biol. Abstr. #10812, 1940.

Kurokawa, M.; and Mikami, K.

Studies on the *pseudotuberculosis* by *B. pseudotuberculosis rodentium* (Pfeiffer) in mice. IV. An experiment concerning the so-called killed bacilli immunity. Saikingaku-Zasshi. 542: 35-40, 1941. Biol. Abstr. #18224, 1941.

* Lazarus, A. S.; and Gunnison, J. B.

Action of *Pasteurella pestis* bacteriophage on strains of *Pasteurella*, *Salmonella* and *Shigella*. J. Bact. 53: 705-714, 1947.

* Lazarus, A. S.; and Nozawa, M. M.

Endotoxin of *Pasteurella pseudotuberculosis*. J. Bact. 56: 187-190, 1948.

Lenskaya, G. N.

Morphological variety of *B. pseudotuberculosis rodentium* Pfeiffer and *B. pestis*. Vest. Mikrobiol. Epidemiol. i Parazitol. 7: 254-263, 1928. English summary, p. 337-338. Biol. Abstr. #12121, 1930. Trop. Dis. Bull. 26: 641, 1929.

Levinthal, W.

Difficulties in differential diagnosis of *pseudotuberculosis* and of plague in rats which infest ships. Zeitschr. f. Hyg. u. Infektionskr. 112: 433-435, 1931.

Lugovaya, L. V.; and Lebedeva, E. A.

Nucleus of *Bacillus pestis* and *Bacillus pseudotuberculosis rodentium* Pfeiffer. Vest. Mikrobiol. Epidem. i Parazitol. 10: 141-147, 1931. Biol. Abstr. #9144, 1934.

Lugovaya, L. V.; and Lebedeva, E. A.

Research showing that *Bacterium pestis* and *Bacterium pseudotuberculosis rodentium* always possess a nucleus. Gior. f. Bacteriol. e Immunol. 12: 1073-1081, 1934.

XI. Relationships to *Pasteurella pseudotuberculosis*.

Merlini, D.

Survival of asporogenous bacteria (*Bacillus pseudotuberculosis* Pfeiffer) for more than 30 years. Soc. Intern. d. Microbiol. Boll. d. Sez. Ital. 10: 215-217, 1938.
Biol. Abstr. #11799, 1939.

- * Moss, Emma S.; and Battle, J. D.
Human infection with *Pasteurella pseudotuberculosis* rodentium of Pfeiffer. Amer. J. Clin. Path. 11: 677-699, 1941.

Nikanorov, S. M.

New differentiating medium for *B. pestis* and *B. pseudotuberculosis* rodentium Pfeiffer. Compt. Rend. Premier Congrès Antipest URSS. 1927: 302-310, 1928.
Biol. Abstr. #8493, 1931.

Ørskov, J.; and Kappus, A.

Mechanism of infection of white mice with *Bacillus pseudotuberculosis* rodentium (Pfeiffer). Acta Path. et Microbiol. Scand. Suppl. 3. p. 543-553, 1930.

Paaricha, C. L.; and Panja, G.

"Swarming" colonies of *Pasteurella pseudotuberculosis*. Indian Med. Gaz. 77: 27, 1942.

- * Petrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3. p. 137-224.

Polizza, A.

Filterable forms of *Preisz-Nocard* bacilli. Rev. Sud Amer. de Endocrinol. 18: 395-398, 1935.

- * Pokrovskaya, M.

Dissociation of *Bacillus pseudotuberculosis* rodentium. Zent. f. Bakt. Abt. I. 116: 304-317, 1930.
Biol. Abstr. #14902, 1931.

Rakhinsky, B.

Comparative study of R and S forms of *B. pestis* and *B. pseudotuberculosis* in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 369-376, 1930.
Biol. Abstr. #16101, 1934.

- * Ramon, G.

Determination of antigenic value of toxin and toxoid of *Preisz-Nocard* bacilli by flocculation method. Compt. Rend. Soc. Biol. 136: 764-765, 1942.

- * Reimann, H. A.

Further studies on *B. pseudotuberculosis*. Amer. J. Hyg. 16: 206-214, 1932.
Biol. Abstr. #16541, 1933.

- * Rottgardt, Abel

Toxic effect of *B. pseudotuberculosis*. Zent. f. Bakt. Abt. I. 119: 323-333, 1931.

- * Rowland, Sydney.

Immunization by pseudotubercle. J. Hyg. Plague suppl. 4. p. 745-755, 1915.

Rowland, Sydney.

The relation of pseudo-tubercle to plague as evidenced by vaccination experiments. J. Hyg. Plague Suppl. 2. p. 350-357, 1912.
Trop. Dis. Bull. 1: 544-545, 1913.

Russo, Egydio

Pasteurella pseudotuberculosis and its serologic behavior. Hospital, Rio de Janeiro. 24: 929-936, 1943.

Saisawa, K.

Pseudo-tuberculosis in man. Comparative experiments with the *V. pseudotuberculosis*. Zeitschr. f. Hyg. u. Infektionskr. 73: 353-420, 1913.
Trop. Dis. Bull. 2: 75, 1913.

XI. Relationships to *Pasteurella pseudotuberculosis*.

- * Savino, Enrico; Aldao, A.; and Anchezar, B.
Cultural characters of the genus *Pasteurella*. Rev. Inst. Bact. Buenos Aires. 9: 110-121, 1939. Biol. Abstr. #4888, 1941.
- * Schütze, Harry.
Biologic studies on 18 strains of *Bacterium pseudotuberculosis rodentium*. Arch. f. Hyg. 100: 181-184, 1928.
- * Schütze, Harry.
Studies in *B. pestis* antigens. II. Antigenic relationship of *B. pestis* and *B. pseudotuberculosis rodentium*. Brit. J. Exper. Path. 13: 289-293, 1932.
- * Seal, S. C.
Studies on the specific soluble proteins of *Pasteurella pestis* and *Pasteurella pseudotuberculosis*. II. Complement-fixing and immunogenic properties. J. Immun. 71: 169-176, 1953.
- Smirnova, E. I.
Value of salt media in differential diagnosis of bubonic bacilli and pseudotuberculosis in rodents. Vest. Mikrobiol. Epidemiol. i Parazitol. 1: 176-182, 1928. Biol. Abstr. #19117, 1930.
- * Tahsiri Bey, S.
Researches on infectious disease in guinea pigs with bacteria of pseudotuberculosis type. Zent. f. Bakt. Abt. I. 102: 374-382, 1927.
- Tumanski, V. M.
Thermocoagulation reaction of plague bacilli and *Bacillus pseudotuberculosis rodentium* Pfeiffer. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 92-98, 1939.
- Tumanski, V. M.
Value of medium containing rhamnose for cultural differentiation of plague bacillus and *Bacillus pseudotuberculosis rodentium*. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 82-88, 1940. Chem. Abstr. 36: 2286.
- Tumanski, V. M.
Variability of plague bacilli under influence of bacteriophage; transformation of *Bacillus pestis* into *Bacillus pseudotuberculosis rodentium*. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 287-298, 1939.
- Tumanski, V. M.; Muller, M.; Bokalo, A.; Wedistschew, S.; and Sabinin, A.
Growth of *Bacillus pseudotuberculosis rodentium* Pfeiffer on agar and bouillon media at various temperatures. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 121-128, 1935.
- Urbain, A.; and Guillot, G.
Experimental infection of rabbits by intracerebral, intraspinal and ocular inoculation of Preisz-Nocard bacilli; sensitivity of rabbits to toxin of these bacillus inoculated by same routes. Compt. Rend. Soc. Biol. 127: 599-601, 1934.
- Urbain, A.; and Guillot, G.
Flocculating power of toxin of Preisz-Nocard bacteria. Compt. Rend. Soc. Biol. 110: 1226-1227, 1932.
- Urbain, A.; Guillot, G.; and Vallée, M.
Longevity of Preisz-Nocard bacillus. Compt. Rend. Soc. Biol. 105: 676-677, 1930.
- Urbain, A.; Vallée, M.; and Guillot, G.
Filterable elements of Preisz-Nocard bacillus. Compt. Rend. Soc. Biol. 105: 769-771, 1930.

XI. Relationships to *Pasteurella pseudotuberculosis*.

- Uriarte, Leopoldo; and Villázon, N.M.
Differential culture medium for
plague bacillus. Compt. Rend. Soc.
Biol. 91: 1041-1943, 1924.
Trop. Dis. Bull. 22: 382, 1925.
- * Uriarte, Leopoldo; and Villázon, N.M.
Differentiation of plague bacillus.
Rev. Inst. Bact. Buenos Aires.
7: 287-295, 1935.
Trop. Dis. Bull. 33: 270, 1936.
- Vedder, A.
Variability of *Bacillus pseudo-*
tuberculosis in rodents. Nederl.
Tijdschr. f. Hyg. Microbiol. en
Serol. 6: 213-232, 1931.
- Zlatogorov, S.I.; and Mogilevskaia, B.I.
The composition of cultures of *B.*
pseudotuberculosis rodentium, their
variation and their affinity with *B.*
pestis. Vest. Mikrobiol. Epidemiol.
i Parazitol. 7: 264-279, 1928.
English summary, p. 338.
Biol. Abstr. #12144, 1930.
- * Zlatogorov, S.I.; and Mogilevskaia, B.I.
Constitution of cultures of *pseudo-*
tuberculosis bacillus of rodents;
variability and close relation to
culture of *Bacillus pestis*. Ann.
Inst. Pasteur. 42: 1615-1634, 1928.
- Zlatogorov, S.I.; and Mogilevskaia, B.I.
Identity of bacillus of *pseudo-*
tuberculosis of rodents and *Bacillus*
pestis. Compt. Rend. Soc. Biol.
99: 506 507, 1928.
Trop. Dis. Bull. 26: 99, 1929.

BIBLIOGRAPHY ON PASTEURELLA PESTIS AND PLAGUE

XII. PATHOGENICITY. EXPERIMENTAL INFECTIONS.

- * Abel, Rudolf
Knowledge of the plague bacillus.
Zent. f. Bakt. Abt. I.
21: 497-517. 1897.
- * Advier, M.
Experimental study of role of
Synosternus pallidus in the trans-
mission of plague. Bull. Soc.
Path. Exot. 30: 643-646. 1937.
Trop. Dis. Bull. 35: 210. 1938.
- The Advisory Committee for Plague
Investigation in India.
Experimental plague epidemics
among rats. J. Hyg. Plague Suppl.
No. 2. p. 292-299. 1912.
Trop. Dis. Bull. 1: 541. 1913.
- * The Advisory Committee for Plague
Investigation in India.
The experimental production of
plague epidemics among animals.
J. Hyg. 10(Plague No.): 315-334.
1910.
- The Advisory Committee for Plague
Investigation in India.
The experimental production of
resolving plague and post-plague
lesions in rats. J. Hyg. Plague
Suppl. 2. p. 287-291. 1912.
Trop. Dis. Bull. 1: 540. 1913.
- The Advisory Committee for Plague
Investigation in India.
The immunity of the wild rat
in India. J. Hyg. Plague Suppl.
No. 2. p. 229-265. 1912.
- * Akulowa, R. F.; and Rudnew, G. P.
Blood picture in experimental
plague. Zent. f. Bakt. Abt. I.
119: 39-48. 1930.
Trop. Dis. Bull. 28: 388. 1931.
- * Anchezar, B. N.
Bacteriologic and anatomo-
pathologic study of the experimental
infection with *P. pestis*. Rev. Inst.
Bact. Buenos Aires. 8: 196-227. 1938.
Trop. Dis. Bull. 36: 313. 1939.
- Anchezar, B. N.
Bacteriological and pathological
study of experimental infection with
Pasteurella pestis (avirulent strain
E.V. of Girard). Rev. Sud-Amer.
Endocrin., Immunol. y Quimioter.
23: 493-494. 1940.
Biol. Abstr. #2603. 1941.
- * Bablet, J.; and Girard, G.
Histologic lesions in primary
experimental pneumonic plague in guinea
pig. Ann. Inst. Pasteur.
52: 155-165. 1934.
Trop. Dis. Bull. 31: 885. 1934.
- Bablet, J.; and Girard, G.
Primary experimental pneumonic
plague in guinea-pig. Compt. Rend.
Soc. Biol. 114: 471-473. 1933.
Trop. Dis. Bull. 31: 307. 1934.
- * Bacot, A. W.
Further notes on the mechanism
of the transmission of plague by
fleas. J. Hyg. Plague Suppl. 4.
p. 774-776. 1915.
Trop. Dis. Bull. 5: 392. 1915.
- * Bacot, A. W.
Notes on the development of
Bacillus pestis in bugs (*Cimex*
lectularius) and their power to
convey infection. J. Hyg. Plague
Suppl. 4. p. 777-792. 1915.
Trop. Dis. Bull. 5: 393. 1915.

XII. Pathogenicity. Experimental Infections.

* Bacot, A. W.

Observations on the length of time that fleas (*Ceratophyllus fasciatus*) carrying *Bacillus pestis* in their alimentary canal are able to survive in the absence of a host and retain the power to re-infect with plague. *J. Hyg. Plague Suppl.* 4. p. 770-773, 1915. *Trop. Dis. Bull.* 5: 393, 1915.

Bacot, A. W.

On the survival of bacteria in the alimentary canal of fleas during metamorphosis from larva to adult. *J. Hyg. Plague Suppl.* 3. p. 655-681, 1914. *Trop. Dis. Bull.* 3: 205, 1914.

Bacot, A. W.; and Martin, C. J.

Observations on the mechanism of the transmission of plague by fleas. *J. Hyg. Plague Suppl.* 3. p. 423-439, 1914. *Trop. Dis. Bull.* 3: 201, 1914.

Barber, M. A.

The infection of guinea pigs and monkeys with doses of plague bacilli ranging from one bacillus upwards. *Far Eastern Assoc. Trop. Med. Trans.* 2d Biennial Congress 1912. p. 127-130.

* Barber, M. A.

Studies on pneumonic plague and plague immunization. X. Immunization of guinea pigs by vaccination with avirulent plague bacilli mixed with agar. *Philippine J. Sci.* 7B: 245-250, 1912.

* Barber, M. A.

Studies on pneumonic plague and plague immunization. XI. The infection of guinea pigs, monkeys and rats with doses of plague bacilli ranging from one bacillus upwards. *Philippine J. Sci.* 7B: 251-254, 1912.

* Barber, M. A.

The susceptibility of cockroaches to plague bacilli inoculated into the body cavity. *Philippine J. Sci.* 7B: 521-524, 1912.

* Bhatnagar, S.S.; and Shrivastava, D.L.

An experimental study on cellular immunity in *Pasteurella pestis* infection. *J. Hyg.* 44: 307-313, 1946.

Bichkov, V.; and Borzenkov, A.

On the determination of plague-infected fleas by the method of preparation and seeding of the isolated alimentary canal. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 8: 20-32, 1929. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 8: 20-32, 1929. English summary, p. 112-113. *Trop. Dis. Bull.* 26: 637, 1929.

* Blanc, Georges; and

Baltazard, Marcel.

Experimental study of plague. Plague infection of *Pulex irritans*. *Compt. Rend. Acad. Sci.* 213: 813-816, 1941. *Trop. Dis. Bull.* 41: 281, 1944.

* Blanc, Georges; and

Baltazard, Marcel.

The mechanism of transmission of plague by *Xenopsylla cheopis*. *Compt. Rend. Ser. Biol.* 136: 646-647, 1942. *Trop. Dis. Bull.* 42: 33, 1945.

Borzenkov, A.; and Donskov, G.

The experimental infection of the tick *Hyalomma volgense*. P. Schulze and E. Schlotke, 1929, with plague. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 12: 25-30, 1933. *Trop. Dis. Bull.* 31: 307, 1934.

XII. Pathogenicity. Experimental Infections.

- * Buddingh, J. G.; and Womack, F. C.
Observations on the infection of chick embryos with *B. tularensis*, *Brucella* and *P. pestis*. Amer. J. Path. 17: 441, 1941.
- * Buddingh, G. J.; and Womack, F. C.
Observations on the infection of chick embryos with *Bacterium tularensis*, *Brucella* and *Pasteurella pestis*. J. Exper. Med. 74: 213-222, 1941.
- Burgess, A. S.
Selection of strain of *Bacillus pestis* for preparation of vaccine, with special reference to effect of animal passage on virulence. J. Hyg. 26: 152-162, 1927.
Biol. Abstr. #3087, 1929.
Trop. Dis. Bull. 24: 938, 1927.
- Burgess, A. S.
Virulence, immunity and bacteriological variation in relation to plague. J. Hyg. 30: 165-179, 1930.
Biol. Abstr. #28276, 1931.
Trop. Dis. Bull. 28: 389, 1931.
- * Burrell, E.
Studies on the filterable forms of bacteria. Experiments with plague bacilli. Arch. Inst. Pasteur de Tunis. 15: 292-304, 1926.
Biol. Abstr. #11482, 1928.
Trop. Dis. Bull. 24: 458, 1927.
- Burroughs, A. L.
Sylvatic plague studies. Survival of rodent fleas in the laboratory. Parasitology. 43: 35-48, 1953.
- * Burroughs, A. L.
Sylvatic plague studies. The vector efficiency of nine species of fleas compared with *Xenopsylla cheopis*. J. Hyg. 45: 371-396, 1947.
- Clerc, M.
Inoculation with plague, with reference to the experiment of Desgenettes. La Médecine, Paris. 30(8): 10-11, 1949.
Excerpta Med. IV. #3230, 1950.
- * Compton, Arthur
Immunization in experimental plague by subcutaneous inoculation with bacteriophage, comparison of plain and formaldehyde-treated phage lysed plague vaccine. J. Infect. Dis. 46: 152-160, 1930.
- * Compton, Arthur
Sensitization and immunization with bacteriophage in experimental plague. J. Infect. Dis. 43: 448-457, 1928.
- * Compton, Arthur
Studies on immunity in experimental plague. Ann. Inst. Pasteur. 45: 754-767, 1930.
Biol. Abstr. #28282, 1931.
- Conti, P. A.; and Van Dae, N.
Use of young pig for maintenance of plague virus to be used in inoculations. Rec. de Méd. Vét. Exot. 2: 205-215, 1929.
- Cornwall, J. W.; and Menon, T. K.
On the possibility of the transmission of plague by bed bugs. Indian J. Med. Res. 5: 137-159, 1917.
Trop. Dis. Bull. 11: 459, 1918.
- De Baadt, O. L. E.
Can the plague be spread by head lice? Mededeel. v. d. Burger. Genesck. Dienst in Nederl-Indie. 4: 39-40, 1915.
Trop. Dis. Bull. 8: 255, 1916.
- De Smidt, F. P. G.
Nairobi plague prophylactic; its potency. Kenya and East African Med. J. 4: 364-378, 1928.
Trop. Dis. Bull. 25: 675, 1928.

XII. Pathogenicity. Experimental Infections.

- De Smidt, F. P. G.
Nairobi plague prophylactic vaccine; further notes on preparation and potency. East African Med. J. 9: 227-236, 1932.
- Devignat, R.
Collective diagnosis of murine plague by placing femoral marrow of rats in physiologic solution and inoculating guinea pig with resulting emulsion. Ann. Soc. Belge de Méd. Trop. 20: 41-50, 1940.
- Devignat, R.
Treatment of experimental plague of guinea pigs. Treatment of human plague: summary of observations made during 1928 at Lake Albert. Rev. Sci. Méd. Française Moyen-Orient. 2: 518-522; 580-581, 1943. Biol. Abstr. #34737, 1948.
- Devignat, R.; Schoetter, M.; and Gille-Simul, S.
Notes on plague in the guinea pig. Rec. Trav. Sci. Méd. Congo Belge. No. 4: 25-36, 1945. Trop. Dis. Bull. 43: 330, 1946.
- * Dieudonne, A., and Ott, R.
Pest. In Handbuch der pathogenen Mikroorganismen, by W. Kolle, R. Kraus, and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928. v. 4 p. 179-422.
- Dobradin, P. M., and Skovodumov, A.
Collected works of the anti-plague organization of the eastern Siberian region for 1929-1931. Trans. East Siberian Reg. Inst. of Microbiol. & Epidemiol. v. 1, 1933. 120p. Trop. Dis. Bull. 32: 451, 1935.
- * Douglas, J. R.; and Wheeler, C. M.
Sylvatic plague studies. II. The fate of Pasteurella pestis in the flea. J. Infec. Dis. 72: 18-30, 1943.
- * Durand, Paul
Dagenan in the treatment of plague. Arch. Inst. Pasteur de Tunis. 28: 96-106, 1939.
- * Ebersson, Frederick
Active immunity to systemic plague infection. J. Infec. Dis. 22: 62-73, 1918.
- * Ebersson, Frederick.
Nature of plague proteotoxins. J. Infec. Dis. 21: 56-61, 1917.
- * Ebersson, Frederick; and Wu, Lien Teh
Transmission of pneumonic and septicemic plague among marmots. J. Infec. Dis. 20: 170-179, 1917.
- * Eskey, C. R.
Fleas as vectors of plague. Amer. J. Pub. Health. 28: 1305-1310, 1938.
- * Eskey, C. R.; and Haas, V. H.
Plague in the western part of the United States. Infection in rodents, experimental transmission by fleas, and inoculation tests for infection. Pub. Health Repts. 54: 1467-1481, 1939.
- * Eskey, C. R.; Prince, F. M.; and Fuller, F. B.
Double infection of the rat fleas X. cheopis and N. fasciatus with Pasteurella and Salmonella. Pub. Health Repts. 66: 1318-1326, 1951.
- Faddeeva, T.
The role of ticks in the transmission and preservation of plague virus. I. Experimental infection of Argas persicus with plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 11: 273-278, 1932. Trop. Dis. Bull. 31: 32, 1934.
- Flu, P. C.
Experiments on immunization against plague. Mededeel. u. h. Geneesk. lab. te Weitevreden. 3sa. p. 133-175, 1919.

XII. Pathogenicity. Experimental Infections.

Flu, P. C.

Experiments in immunization against plague. *Geneesk. Tijdschr. f. Nederl.-Indië*. 60: 181-223, 1920. *Trop. Dis. Bull.* 17: 396, 1921.

Flu, P. C.

Further investigations on the question of mosquitoes as carriers of plague. *Geneesk. Tijdschr. v. Nederl.-Indië*. 56: 917-921, 1916. *Trop. Dis. Bull.* 9: 480, 1917.

Flu, P. C.

The immunity of the common fowl (*Gallus domesticus*) from plague. *Meded. Geneesk. Lab. Weltevreden*. 3d Ser. A. No. 4: 116-132, 1919. *Trop. Dis. Bull.* 16: 48, 1920.

Flu, P. C.

Immunization of rats against plague by concentrated bacteriophage prepared from virulent plague bacilli. *Nederl. Tijdschr. v. Geneesk.* 73: 4010-4020, 1929. *Biol. Abstr.* #8006, 1931. *Trop. Dis. Bull.* 27: 136, 1930.

Flu, P. C.

Immunization of white rats with aqueous extracts of virulent plague bacilli. *Compt. Rend. Soc. Biol.* 100: 835-837, 1929. *Trop. Dis. Bull.* 26: 638, 1929.

Flu, P. C.

Immunization of white rats with plague bacilli lysed by anti plague bacteriophage. *Compt. Rend. Soc. Biol.* 100: 837-838, 1929. *Trop. Dis. Bull.* 26: 638, 1929.

Flu, P. C.

Mosquitoes as carriers of plague? *Geneesk. Tijdschr. v. Nederl.-Indië*. 54: 540-551, 1914. *Trop. Dis. Bull.* 5: 394, 1915.

Flu, P. C.

Plague bacteriophage and prophylaxis and treatment of experimental plague. *Geneesk. Tijdschr. v. Nederl.-Indië*. 69: 958-966, 1929. *Trop. Dis. Bull.* 27: 737, 1930.

* Flu, P. C.

Plague immunization in rats with phage extracts of virulent plague bacteria, bacteriophage as a solvent. *Zent. f. Bakt. Abt. I.* 113: 473-480, 1929. *Biol. Abstr.* #8783, 1933.

Flu, P. C.

Preventive inoculation against plague with bacteriophage from concentrated suspensions of plague bacilli. *Nederl. Tijdschr. f. Geneesk.* 1: 2102-2115, 1929.

Gaisky, N. A.

Experimental plague infection of hibernating marmots. *Russk. Vrach.* 14: 857-859, 1915.

Galler, O.

Experimental plague infection in cats. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 9: 139-154, 1930.

Gel'tenkov, A. I.

Study of typhus vaccine, the anti-toxin, antitoxic antiplague serum, and the technic of its standardization with white mice. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 17: 272-301, 1933. *Biol. Abstr.* #9171, 1943.

* Girard, Georges.

Behavior of leprosy rats toward experimental plague infection. *Compt. Rend. Soc. Biol.* 145: 1627-1630, 1951.

* Girard, Georges.

Identification of plague bacilli by inoculating guinea pig with serous fluids obtained by puncture, diluted with salt water. *Bull. Soc. Path. Exot.* 31: 669-678, 1938.

XII. Pathogenicity. Experimental Infections.

- * Girard, Georges.
Immunity of hedge hog and tanrec to experimental plague. Compt. Rend. Soc. Biol. 106: 1078-1080, 1931.
- Girard, Georges.
Inadequate immunization of animals to plague with production of pneumonia and its applicability to man. Bull. Soc. Path. Exot. 36: 218-222, 1943.
Trop. Dis. Bull. 42: 377, 1945.
- * Girard, Georges.
Post-mortem detection of plague by means of organ puncture. Thirty years of experience in Madagascar. Bull. World Health Organization. 5: 109-116, 1952.
- * Girard, Georges.
Simplified technique for the diagnosis of plague bacilli post mortem. Bull. Soc. Path. Exot. 30: 240-252, 1937.
Trop. Dis. Bull. 34: 789, 1937.
- Girard, Georges.
Streptomycin in experimental pneumonic plague in guinea pig. Bull. Soc. Path. Exot. 42: 339-342, 1949.
Trop. Dis. Bull. 47: 236, 1950.
- Girard, Georges.
Treatment of plague by sulphoamides experimental and human. Bull. Soc. Path. Exot. 34: 37-48, 1941.
Trop. Dis. Bull. 39: 308, 1942.
- * Girard, Georges; and Girard, M.
Remarkable effectiveness of 693 M.B. paraminobenzene sulfamidopyridine in the treatment of experimental plague. Bull. Soc. Path. Exot. 32: 480-482, 1939.
- * Girard, Georges; and Quimaud, J.
Antiplague immunization of guinea pigs. Bull. Soc. Path. Exot. 17: 471-475, 1924.
Trop. Dis. Bull. 22: 381, 1925.
- * Girard, Georges; and Radaody-Balarosy, P.
Fate of two strains of attenuated plague bacilli injected subcutaneously. Compt. Rend. Soc. Biol. 133: 580-582, 1940.
Trop. Dis. Bull. 37: 830, 1940.
- Girard, Georges; and Robic, J.
Experimental pneumonic plague. Arch. Inst. Pasteur Tananarive. p. 24-32, 1941.
- * Gomila, F. R.
A characteristic exanthem in epizootic plague and the experimental reproduction of the lesion in the guinea pig. Proc. Soc. Exper. Biol. Med. 27: 918-919, 1930.
- Goyle, A. N.
Experiments on the transmission of plague by fleas of the genus Xenopsylla (cheopis and astia) with a discussion on the flea species distribution in its relation to the incidence of plague. Indian J. Med. Res. 15: 837-860, 1928.
Trop. Dis. Bull. 26: 98, 1929.
- Goyle, A. N.
Experiments on the transmission of plague by Xenopsylla cheopis and X. as. a. Far East. Assoc. Trop. Med. Trans. Seventh Congr. 2: 35-39, 1927.
- Gubarev, E. M. and Chernovasev, V. S.
Nitrogen content of blood in experimental plague of guinea pigs. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 135-137, 1933.

XII. Pathogenicity. Experimental Infections.

- Gupta, J. C.; Panja, G.; and Chatterjee, M.
The effect of sulphadiazine and penicillin on experimental animal plague. *Indian Med. Gaz.* 81: 234-235, 1946.
Biol. Abstr. #9197, 1947.
- Haffkine, W. M.
Concerning inoculation against plague and pneumonia and experimental study of therapeutic methods. *Indian Med. Gaz.* 50: 121-131, 175-180, 211-213, 1915. Also: *J. Hyg.* 15: 64-101, 1915.
Trop. Dis. Bull. 6: 416, 1915.
- Haller, O.
Experimental plague in cats. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 9: 139-154, 1930.
Biol. Abstr. #10451, 1932.
- Hauduroy, P., and Neveu.
Vaccination of animals sensitive to plague. *Ann. d Hyg.* 9: 624-627, 1931.
- * Herbert, Denis
Streptomycin in experimental plague. *Lancet* 3: 626-630, 1947.
- * Holdenried, R.
Sylvatic plague studies. VII. Plague transmission potential of the fleas *Diamanus morsitans* and *Polygenus gwyzi* compared with *Xenopsylla cheopis*. *J. Infect. Dis.* 90: 32-40, 1952.
- * Holdenried, R.
Sylvatic plague studies. VIII. Notes on the alimentary and reproductive tracts of fleas made during experimental studies of plague. *J. Parasit.* 38: 289-292, 1952.
- * Hornabrook, J. W.
Streptomycin in experimental plague. *Pub. Health Repts.* 61: 535-538, 1946.
- * Hsue, L. T.
Experimental studies on living plague vaccines. *Chinese Med. J.* 62: 193-196, 1944.
- Indian Plague Commission.
Further observations on the transmission of plague by fleas, with special reference to the fate of the plague bacillus in the body of the rat flea. *J. Hyg.* 7: 395-420, 1907.
- Indian Plague Commission.
The mechanism by means of which the flea clears itself of plague bacilli. *J. Hyg.* 8: 260-265, 1908.
- Indian Plague Commission.
Reports on plague investigation in India. I. Experiments upon the transmission of plague by fleas. *J. Hyg.* 6: 425-482, 1906.
- * Issaly, A. S., and De Issaly, I.S.M.
A modification of Braguet's fluid for the better preservation of the viability and virulence of the plague bacillus in infected organs. *Rev. Inst. Bact., Buenos Aires.* 14: 191-201, 1949.
Trop. Dis. Bull. 47: 355, 1950.
- Ivanovsky, N., Gutarev, E. M., and Galic, D.
Blood chemistry in experimental plague. I. Residual nitrogen, sugar, calcium and chlorides in the blood of guinea pigs. *Vest. Mikro. Epidemiol. i Parazitol.* 8: 291-295, 1929.
Biol. Abstr. #1047, 1933.
Trop. Dis. Bull. 27: 339, 1930.
- * Jawetz, E., and Meyer, K. F.
The behavior of virulent and avirulent *P. pestis* in normal and immune experimental animals. *J. Infect. Dis.* 74: 1-13, 1944.

XII. Pathogenicity. Experimental Infections.

- * Jawetz, E.; and Meyer, K. F.
Experimental infection of the chick embryo with virulent and avirulent *Pasteurella pestis*.
Amer. J. Path. 20: 457-469, 1944.
- * Jawetz, E.; and Meyer, K. F.
Studies on plague immunity in experimental animals. I. Protective and antitoxic antibodies in the serum of actively immunized animals.
J. Immun. 49: 1-14, 1944.
- * Jawetz, E.; and Meyer, K. F.
Studies on plague immunity in experimental animals. II. Some factors of the immunity mechanism in bubonic plague. *J. Immunol.* 49: 15-30, 1944.
- Jettmar, H. M.
Remarks on the coexistence of tuberculosis and plague. (Studies on mixed infection in guinea pigs.)
Natl. Med. J. China. 11: 257-281, 1925.
Trop. Dis. Bull. 23: 183, 1926.
- Joukov Verejnikov, N. and Liparova, T.
Immunological studies on plague. I. The comparative value of the anti-plague sera in the connection with the study of the significance of *B. pestis* fractions in the pathogenicity of plague by means of Schwartzman's phenomenon. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 12: 257-266, 1933.
Trop. Dis. Bull. 31: 885, 1934.
- Kavauloff, F. V.
Patho-anatomical changes of the organs of animals when attacked by the bacillus of human plague; experimental study. *Uchen. Zapiski Kazan. Vet. Inst.* 16: 91, 569, 1899.
17: 1-89, 1900.
- * Kitano, T.; and Sukegawa, K.
On sensitized plague vaccine and its practical application. *Kitasato Arch. Exper. Med.* 2: 67-86, 1918.
- * Korobkova, E. I.
Chemotherapy of experimental plague. *Zhur. Mikrobiol. Epidemiol. i Immunobiol.* No. 6: 71-74, 1944.
- Korobkova, E. I.
Comparative study of pathogenic and vaccinating properties of EV strain of Girard and Robic and of 46S variant of plague bacillus. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 18: 3-31, 1940.
- Korobkova, E. I.
Receptivity of guinea pig to plague infection under conditions of primary contact. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 18: 239-243, 1940.
- Kotelnikov, G., Semko, F.; and Bessonova, A.
Localization of *B. pestis* in the blood organs and tissues of experimentally infected guinea pigs. *Compt. Rend. Premier Congrès Antipest. URSS.* p. 335-346, 1927.
French summary, p. 437-438.
Biol. Abstr. #28236, 1930.
- Lang, N.
On the preservation of *B. pestis* in the larvae of the fly in the state of progressive development. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 19: 96-97, 1940.
Biol. Abstr. #18574, 1941.
- Ledingham, J. C. G.
The pathological histology of the spleen and liver in spontaneous rat plague and observations on experimental infection. *J. Hyg.* 7: 359-372, 1907.

- * Leger, M.; and Baury, A.
Use of the rat as a reactive animal in plague. Bull. Soc. Path. Exot. 16: 78-79, 1922.
- Lobanov, V. N.
Histologic changes in *Pallasiomys meridarius* infected with experimental plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 277-292, 1940.
- Lobanov, V. N. and Fedorov, V.
On pathogenesis of experimental plague in southern gerbils. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 57-60, 1940.
Trop. Dis. Bull. 36: 966, 1939.
- * Marchiavello, Attilio; and Uriquen, Daniel
Experimental plague in guinea pigs inoculated with *P. pestis* of the Ecuador strain. Puerto Rico J. Pub. Health & Trop. Med. 19: 577-601, 1944.
- McCoy, G. W.
The relation of animal experimentation to our knowledge of plague. J. Amer. Med. Assoc. 15: 186-190, 1910.
- * McCrumb, F. R.; Larson, A. and Meyer, K. F.
The chemotherapy of experimental plague in the primate host. J. Infec. Dis. 92: 273-287, 1953.
- * McMahon, Margaret C.
Susceptibility of the golden hamster *Mesocricetus auratus* to plague. Pub. Health Repts. 59: 234-236, 1944.
- Manaud, A.
Observations and experimental research on the pathology of pneumonic plague. Far East. Assoc. Trop. Med. Trans. 3d Biennal Congr., 1913. pp 213-22.
Trop. Dis. Bull. 5: 395, 1915.
- * Meyer, K. F.
Immunity in plague: a critical consideration of some recent studies. J. Immun. 64: 139-163, 1950.
- * Meyer, K. F.; and Batchelder, A.
Local immunization of guinea pigs to cutaneous infection with *Pasteurella* isolated from wild rats. Proc. Soc. Exper. Biol. Med. 23: 730-734, 1926.
- * Meyer, K. F.; Foster, L. E.; Baker, E. E.; Sommer, H.; and Larson, A.
Experimental appraisal of anti-plague vaccination with dead virulent and living avirulent plague bacilli. Proc. 4th Internat. Congr. Trop. Med. & Malaria. 1: 264-274, 1948.
- * Meyer, K. F.; Quan, S. F.; and Larson, A.
Prophylactic immunization and specific therapy of experimental pneumonic plague. Amer. Rev. Tuberc. 57: 312-321, 1948.
- * Meyer, K. F.; Quan, S. F.; McCrumb, F. R.; and Larson, A.
Effective treatment of plague. Ann. New York Acad. Sci. 55: 1228-1274, 1952.
- * Morales, O. P.
Bacteriology of plague: a review. Puerto Rico J. Pub. Health & Trop. Med. 11: 553-583, 1936.
- Neel, R.
The effect of treatment by Streptomycin on the virulence of *P. pestis* in experimental pneumonic plague of guinea pigs. Bull. Soc. Path. Exot. 44: 69-76, 1951.
Trop. Dis. Bull. 48: 629, 1951.

XII. Pathogenicity. Experimental Infections.

Novikova, E. I.; and Lalazarov, G. A.

The role of bedbugs in the epidemiology of plague. I. The duration of viability of plague virus in the body of the infected bedbug. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 315-322, 1931. Trop. Dis. Bull. 30: 163, 1933.

Otten, L.

Experimental plague vaccination. I. Dead vaccine. Geneesk. Tijdschr. v. Nederl.-Indië. 73: 835-857, 1933. Trop. Dis. Bull. 31: 35, 1934.

Otten, L.

Experimental vaccination in plague; dead vaccine. Mededeel. v. d. Dienst. d. Volksgezondh. in Nederl.-Indië. 22: 131-149, 1933. Biol. Abstr. 10: 6150, 1936.

Otten, L.

Experimental plague vaccination. I. Dead vaccine. Mededeel. v. d. Dienst. d. Volksgezondh. in Nederl.-Indië. 22(2): 61-80, 1933. Trop. Dis. Bull. 31: 35, 1934.

Otten, L.

Immunization against plague with dead and live vaccines. Mededeel. v. d. Dienst. d. Volksgezondh. in Nederl.-Indië. 21: 111-123, 1938. Biol. Abstr. #6717, 1938. Trop. Dis. Bull. 35: 15, 1938.

Otten, L.

Immunization against plague with live vaccine. Indian J. Med. Res. 24: 73-101, 1936. Trop. Dis. Bull. 34: 417, 1937.

Otten, L.

A live plague vaccine and the results. Mededeel. Dienst. d. Volksgezondheid. in Nederl.-Indië. 30(1-2): 61-110, 1941. Biol. Abstr. 15: #23864, 1941. Trop. Dis. Bull. 39: 309-310, 1942.

Otten, L.

The living plague vaccines and their results. Geneesk. Tijdschr. Nederland-Indië. 80: 2878-2950, 1940. Biol. Abstr. #15025, 1941. Trop. Dis. Bull. 38: 330, 1941.

* Petrus, G. F.

Bacillus pestis. Int. Great Britain Medical Research Council. A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 157-224.

* Phillips, R. L.; and Barnes, L. H.

Treatment of Pasteurella pestis infection in mice. J. Franklin Inst. 235: 94-97, 1943.

Pirrie, J. H. H.

Plague studies. I. Bacteriophage in the prophylaxis and treatment of experimental plague. Publ. South African Inst. Med. Res. 4: 191-230, 1929. Biol. Abstr. #20743, 1931. Trop. Dis. Bull. 27: 738, 1930.

Pollitzer, R.

Plague studies. 3. Problems in immunology. Bull. World Health Organization. 5: 165-226, 1952.

* Pollitzer, R.

Plague studies. 5. Methods of laboratory diagnosis. Bull. World Health Organization. 6: 317-350, 1952.

Pons, R.

Effect of repeated injections of dilute bacteriophage on the development of experimental plague. Comp. Rend. Soc. Biol. 114: 1066-1068, 1933. Trop. Dis. Bull. 31: 308, 1934.

* Pons, R.

Plague bacteriophage in vivo in man and laboratory animals. Bull. Soc. path. Exct. 25: 437-447, 1932. Trop. Dis. Bull. 29: 678, 1932.

XII. Pathogenicity. Experimental Infections.

- Pons, R.; and Advier, M.
Experimental studies on lipo- and aqueous plague vaccines. Negative phase and stimulation of infection by vaccination. *Ann. de Med. et de Pharm. Colon.* 31: 5-24, 1933.
Trop. Dis. Bull. 31: 34, 1934.
- * Quan, S. F.; Chen, T. H.; and Meyer, K. F.
Protective action of antibiotics against the toxin of *Pasteurella pestis* in mice. *Proc. Soc. Exper. Biol. Med.* 75: 548-549, 1950.
Biol. Abstr. #14350, 1951.
- * Quan, S. F.; Foster, L. E.; Larson, A.; and Meyer, K. F.
Streptomycin in experimental plague. *Proc. Soc. Exper. Biol. Med.* 66: 528-532, 1947.
- * Ramon, Gaston; Girard, Georges; and Richou, Remy.
Influence on plague toxin of filtrates from cultures of *B. subtilis*, *Penicillium notatum* and *Actinomyces griseus*. *Compt. Rend. Acad. Sci.* 224: 1259-1261, 1947.
Trop. Dis. Bull. 44: 900, 1947.
- Reyraud, U.
Value of living plague vaccine tests on animals. *Soc. Internaz. d. Microbiol. Bull. d. Sez. Ital.* 9: 60-64, 1937.
Trop. Dis. Bull. 35: 205, 1938.
- * Reverend, J.
Report on results of virulence tests on old plague strains. *Zentr. f. Bakt. Abt. I.* 52: 161-170, 1909.
- Robic, J.
The use of the lemur as an experimental animal in Madagascar. Its interest in the study of plague. *Bull. Soc. Path. Exot.* 34: 246-249, 1941.
Biol. Abstr. #1358, 1942.
- * Rowland, Sydney.
Experiments on the vaccination of animals against plague. *J. Hyg.* 10(Plague No.): 536-565, 1910.
- * Rowland, Sydney.
Further experiments on vaccination against a body-strain of plague. *J. Hyg. Plague Suppl.* 4: p. 752-753, 1915.
- * Rowland, Sydney
Immunization by living avirulent cultures. *J. Hyg. Plague Suppl.* 4: p. 756-759, 1915.
- Rowland, Sydney.
The influence of cultivation in serum-containing media upon the virulence and immunizing properties of the plague bacillus. *J. Hyg. Plague suppl.* 3: p. 403-411, 1914.
Trop. Dis. Bull. 3: 205, 1914.
- Rowland, Sydney.
The influence of the medium in which *B. pestis* is propagated upon its virulence. *J. Hyg. Plague Suppl.* 3: p. 440-446, 1914.
Trop. Dis. Bull. 3: 206, 1914.
- Rowland, Sydney.
Observations on the mechanism of plague immunity. *J. Hyg. Plague Suppl.* 2: p. 358-366, 1912.
Trop. Dis. Bull. 1: 545, 1913.
- * Rowland, Sydney
On the failure to vaccinate against a virulent body-strain even with an antigen prepared as far as possible under body conditions. *J. Hyg. Plague Suppl.* 4: p. 760-761, 1915.
Trop. Dis. Bull. 5: 398, 1915.

XII. Pathogenicity. Experimental Infections.

- Rowland, Sydney.
The onset and duration of the immunity consequent to the inoculation of plague nucleoprotein. J. Hyg. Plague Suppl. 2. p. 367-372, 1913.
Trop. Dis. Bull. 1: 546, 1913.
- * Rowland, Sydney.
Preliminary observations on the protective and curative value for rats of the serum of a horse immunized with a toxic nucleoprotein extracted from the plague bacillus. J. Hyg. 11(Plague No.) 11-19, 1911.
- * Rowland, Sydney.
The protective and curative value against infection with a serum race of plague, and of the serum of a horse immunized with nucleoprotein extracted from a strain of plague bacilli propagated on serum protein. J. Hyg. Plague Suppl. 4. p. 762-764, 1915.
- Rowland, Sydney.
The relation of pseudo-tubercle to plague as evidenced by vaccination experiments. J. Hyg. Plague Suppl. No. 2. p. 350-357, 1912.
Trop. Dis. Bull. 1: 544-545, 1913.
- Russo, Camillo.
Experimental transmission of plague by insects. Bull. Off. Internat. d Hyg. Pub. 21: 2108-2120, 1930.
Trop. Dis. Bull. 28: 384, 1931.
- Sathe, R. G.
Notes on the pathological lesions observed in domestic animals experimentally infected with plague. Indian Vet. J. 142-147, 1930.
- * Savino, Enrico; and Anchezar, B.
Experimental antiplague vaccination with living bacteria. Rev. Inst. Bact. Buenos Aires. 9: 122-141, 1939.
Trop. Dis. Bull. 37: 426, 1940.
- * Savino, Enrico; Kuhn, M. J.; and Villazon, N. M.
Rescuing plague in grey rats. Rev. Inst. Bact. Buenos Aires. 12: 190-194, 1944.
Trop. Dis. Bull. 42: 559, 1945.
- * Savino, Enrico; and Villazon, N. M.
Action of sulphanilamide, sulphapyridine and sulphathiazole in experimental plague. Rev. Inst. Bact. Buenos Aires. 11: 70-76, 1942.
Trop. Dis. Bull. 40: 306, 1943.
- * Schötbl, Otto
Bacteriological observations made during the outbreak of plague in Manila in 1912. Philippine J. Sci. 8B: 409-428, 1913.
- * Schurupoff, J. S.
The susceptibility of the sperophile to bubonic plague. Zent. f. Bakt. Abt. I. 65: 243-256, 1912.
- * Schütze, Harry.
Chemotherapy in plague infection. Lancet. 1: 266-268, 1939.
- Schütze, Harry.
Plague immunization in guinea pigs and rats. Brit. J. Exper. Path. 6: 207-210, 1925.
Trop. Dis. Bull. 23: 185, 1926.
- * Schütze, Harry.
Studies in B. pestis antigens. III. Prophylactic value of envelope and somatic antigens of B. pestis. Brit. J. Exper. Path. 13: 293-298, 1932.
- Semikoz, F. F.
Apparatus for infection (by inhalation) of small animals with pathogens (B. pestis). Vest. Mikrobiol. Epidemiol. i Parazitol. 6: 345-348, 1927.
Biol. Abstr. #14514, 1929.

XII. Pathogenicity. Experimental Infections.

Shibayama, G.

Experiments on prophylactic inoculation against experimental plague pneumonia in guinea pigs. *Far Eastern Assoc. Trop. Med. Trans.* 2d Biennial Congress, 1912. p. 130-147.
Trop. Dis. Bull. 1: 317-318, 1913.

Silva, Marcelo; Albuquerque, Rodrigues; and Bica, J. N.

Experimental plague in the domestic cat. *Brasil-Med.* 24: 183, 1942.

Silva, Marcelo; and Valenca, J. V.

Work of plague laboratory of Federal Health Commission of old third region with headquarters in Fortaleza. Hospital, Rio de Janeiro. 19: 957-992, 1941.

Simon, R.

A study of the susceptibility to plague of the rodents of the neotropical region. *Monografias do Servico Nacional de Pests.* 3. Rio de Janeiro, 1951. 69p.
Trop. Dis. Bull. 49: 140, 1952.

Skorodumov, A. M.

Effect of poisons on the vascular system of the isolated rabbit ear in experimental plague. *J. de Biol. et de Med. Exper.* 13(34): 120-123, 1929.
Biol. Abstr. #13380, 1933.

* Sokhey, S. S.

Experimental studies in plague. IV. Experimental animal of choice for plague work. *Indian J. Med. Res.* 27: 241-254, 1939.
Trop. Dis. Bull. 37: 420, 1940.

* Sokhey, S. S.

Experimental studies in plague. V. A method for measuring the virulence of plague cultures. *Indian J. Med. Res.* 27: 255-261, 1939.
Trop. Dis. Bull. 37: 420, 1940.

* Sokhey, S. S.

Experimental studies in plague. VI. A method for maintaining the virulence of *Past. pestis*. *Indian J. Med. Res.* 27: 363-371, 1939.

* Sokhey, S. S.; and Dikshit, B. B.

Sulfathiazole in bubonic plague. *Lancet.* 1: 1040-1042, 1940.

Sokhey, S. S.; and Habbu, M. K.

Aureomycin and chloromycetin in the treatment of experimental plague. *Indian J. Med. Res.* 38: 197-201, 1950. *Trop. Dis. Bull.* 47: 1081, 1950.

Stevenson, W. D. H.; and

Kapadia, R. J.

Experiments on onset of immunity after inoculation with Haffkine's antiplague vaccine, absence of "negative phase". *Indian J. Med. Res.* 12: 553-559, 1925.
Trop. Dis. Bull. 22: 776, 1925.

* Strong, R. P.; and Teague, Oscar.

Studies on pneumonic plague and plague immunization. IV. Portal of entry of infection and method of development of the lesions in pneumonic and primary septicaemic plague: experimental pathology. *Philippine J. Sci.* 7B: 173-180, 1912.

* Strong, R. P.; and Teague, Oscar

Studies on pneumonic plague and plague immunization. IX. Protective inoculation against pneumonic plague. *Philippine J. Sci.* 7B: 229-243, 1912.

* Swellengrebel, N. H.; and Otten, L.

Experimental contributions to the knowledge of plague transmission by fleas and lice. *Zent. f. Bakt. Abt. I.* 74: 592-603, 1914.
Trop. Dis. Bull. 5: 24, 1915.

XII. Pathogenicity. Experimental Infections.

Taylor, J.

Haffkine's plague vaccine.
Indian Med. Res. Memoirs No. 27.
p. 3-125, 1933.
Trop. Dis. Bull. 30: 527-528, 1933.

Taylor, J.; and Chitre, G. D.

Comparative experiments on the transmission of plague by *X. cheopis* and *X. astia* with a discussion of certain epidemiological evidence as to the relation of these fleas to epidemic plague. Indian J. Med. Res. 11: 621-638, 1923.
Trop. Dis. Bull. 21: 440, 1924.

Tuck, G. L.

Further note on natural and experimental plague in tarbagans.
J. Hyg. 22: 329-334, 1924.

Tumanski, V. M.

The vaccination of guinea pigs by the living bacillus of *B. pestis* EV. Girard and Robic. Vest. Mikrobiol. Epidemiol. a Parazitol. 17: 261-271, 1938.
Biol. Abstr. #9196, 1943.

* Uriarte, Leopoldo; and Villazon, N. M.

Susceptibility and non-susceptibility to plague of some animals.
Rev. Inst. Fact. Buenos Aires. 7: 720-726, 1936.

Valtin, J. and Van Deanse, F.

Influence of repeated inoculations of *Pasteurella* vaccines and filtrates of cultures of *Pasteurella* on evolution of experimental tuberculosis in guinea pigs. Compt. Rend. Soc. Biol. 118: 403-404, 1935.

Vincke, I. and Janssens, P. G.

Experimental study of the relative merits of anti-plague immunization by living attenuated and dead vaccine. Rec. Travaux Sci. Med. Congo Belge. No. 1: 86-103, 1942.
Trop. Dis. Bull. 40: 391, 1943.

* Walker, D. L.; Foster, L. E.;

Chen, T. H.; Larson, A.; and Meyer, K. F.

Studies on immunization against plague. V. Multiplication and persistence of virulent and avirulent *Pasteurella pestis* in mice and guinea pigs. J. Immun. 70: 245-252, 1953.

* Wayson, N. E.; and McMahon, M. C.

Plague sulphadiazine treatment of guinea pigs infected by artificial methods or by flea transmission. Pub. Health Repts. 59: 385-401, 1944.

* Wayson, N. E.; and McMahon, M. C.

Plague treatment of experimental animals with streptomycin, sulfadiazine, and sulfapyrazine. J. Lab. Clin. Med. 31: 323-332, 1946.

* Wayson, N. E.; McMahon, M. C.; and Prince, F. M.

An evaluation of three plague vaccines against infection in guinea pigs induced by natural and artificial methods. Pub. Health Repts. 61: 1511-1518, 1946.

Weiss, A.

Anti-plague vaccination of guinea pigs. An. Inst. Nac. de Parasitol. 2: 111-125, 1929.

Wheeler, C. M.; and Douglas, J. R.

Sylvatic plague studies. V. The determination of vector efficiency. J. Infec. Dis. 77: 1-12, 1945.

* Williams, C. L.

Experimentally produced late bacteremia and resolving plague in rats. Amer. J. Trop. Med. 6: 367-375, 1926.

* Williams, C. L.; and Kemmerer, T. W.

Plague infected rats without visible lesions. Pub. Health Repts. 38: 1873-1881, 1923.

XII. Pathogenicity. Experimental Infections.

- * Witlin, Bernard; and Wilbar, C.
Effect of penicillin on experimentally produced plague in guinea pigs. J. Lab. Clin. Med. 30: 327-243, 1945.

Wu, Lien Teh

A further note on natural and experimental plague in Tarbagans. J. Hyg. 22: 329-334, 1923-24. Trop. Dis. Bull. 21: 879, 1924.

- * Wu, Lien Teh

The perpetuation of plague among wild rodents. Amer. J. Hyg. 8: 649-670, 1928.

Yokoyama, Tamon

Microbiological studies on the suppression of animal vectors of plague in Manchuria. J. Oriental Med. 31: 417-565, 1939.

Zabolotnov, P.; and Shmidt, B.

Morphology of experimental pulmonary plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 155-168, 1930. Biol. Abstr. #10729, 1932.

Zheltenkov, A. I.

Plague toxin, anatoxin and anti-serum and methods for their standardization using white mice. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 272-300, 1940.

Zhukov-Verezhnikov, N.; and

Lipatova, T.

Immunology of plague. I. Comparative value of antiplague sera and study, by means of Schwartzman's phenomenon, of the significance of B. pestis fractions in plague pathogenesis. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 257-267, 1933-1934. Biol. Abstr. #3878, 1937.

BIBLIOGRAPHY ON PASTEURURELLA PESTIS AND PLAGUE

XIII. IMMUNOLOGY. PROPHYLAXIS. ANTISERA. VACCINES.

Abbatucci.

Notes on accidents observed following injections of Yersin's antiplague serum. *Ann. d'Hyg. Méd. Colon.* 17: 446-449, 1914.

Abbatucci.

Vaccinotherapy and serum therapy against plague. *Gaducee, Paris.* 12: 79, 1912.

Active measures against plague. *Chronicle World Health Organization.* 3: 269-274, 1949.

The Advisory Committee for Plague Investigation of India.

The summary of the wild rat in India. *J. Hyg. Plague Suppl.* 2: p. 229-265, 1932.
Trop. Dis. Bull. 1: 338, 1933.

Alonso Magaña, Juan Carlos.

Plague and its prophylaxis in Peru. *Bol. San. Arica.* 6: 47-48, 1942.

* Ames, C. B.

The envelope substance of *Pasteurella pestis*. *Br. J. Exper. Path.* 30: 259-271, 1959.

Bailey, J., Girard, Georges, and Rhoten, J.

Nodules and hyperthymic lesions of spleen of guinea pigs after intra-peritoneal injection of plague bacilli of attenuated virulence. *Compt. Rend. Soc. Biol.* 124: 1055-1057, 1957.

* Baker, E. E.; Sommer, H.;

Foster, L. E.; Meyer, E.; and Meyer, K. F.

Antigenic structure of *Pasteurella pestis* and the isolation of a crystalline antigen. *Proc. Soc. Exper. Biol. Med.* 64: 139-141, 1947.

* Baker, E. E.; Sommer, H.;

Foster, L. E.; Meyer, E.; and Meyer, K. F.

Studies on immunization against plague. I. The isolation and characterization of the soluble antigen of *Pasteurella pestis*. *J. Immunol.* 68: 131-146, 1952.

* Bannerman, W. B., ed.

Scientific memoirs by officers of the medical and sanitary departments of the government of India. Serum therapy of plague in India. Reports by W. M. Hartline, and various officers of the Plague research laboratory, Bombay. Calcutta, Office of Superintendent of Govt. Printing, 1904. 119.

* Bannerman, W. B.

Serum therapy of plague in India. Introduction. In: *Ser. Mem. by officers of the Med. and San. Dept. of Govt. of India.* Calcutta, 1905. p. 1-25.

* Barber, M. A.

Studies of prevention, plague and plague immunization. X. Immunization of guinea pigs by vaccination with avirulent plague bacilli mixed with agar. *Philippine J. Sci.* 17B: 245-250, 1912.

- * Barber, M. A.; and Teague, Oscar.
Studies on pneumonic plague and plague immunization. 12. Some experiments to determine the efficacy of various masks for protection against pneumonic plague. Philippine J. Sci. 7B: 255-268, 1912.
- Bayly, M. B.
Inoculation against bubonic plague. Med. World, London. 65: 76-80, 1946.
- * Beals, L. H.
Immunization against plague: experience of a medical missionary with Haffkine's vaccine. J. Amer. Med. Assoc. 75: 955, 1920.
- Bergeon, P.; and Cebe, J.
Preparation and conservation of Jacotot vaccine. Bull. Acad. Vét. de France. 3: 358-370, 1930.
- Besredka, A.
Immunization against plague, cholera and typhoid infections. Bol. d. Inst. Patol., Mexico. 2: 60-73, 1903.
- * Bhatnagar, S. S.; and Shrivastava, D. I.
An experimental study on cellular immunity in Pasteurella pestis infection. J. Hyg. 44: 307-313, 1946.
Trop. Dis. Bull. 43: 840, 1946.
- Bombay. Haffkine Institute.
Report of the Haffkine Institute for the years 1932-1935. Part II-A. Plague. p. 51-89.
Trop. Dis. Bull. 34: 402, 1937.
- Bombay. Haffkine Institute.
Report of the Haffkine Institute for the year 1936. p. 31-45.
Trop. Dis. Bull. 35: 200, 1938.
- Bombay. Haffkine Institute.
Report of the Haffkine Institute for the year 1939. Studies on plague. p. 3-6, 33-43.
Trop. Dis. Bull. 39: 300-301, 1942.
- Bombay. Haffkine Institute.
Report of the Haffkine Institute for the years 1940 and 1941. Antiplague serum, sulphathiazole and sulphapyridine in the treatment of bubonic plague. p. 37-45.
Trop. Dis. Bull. 41: 37, 1944.
- Boyé.
Preventive inoculation against plague in western French Africa in 1928. Bull. Off. Internat. d'Hyg. Pub. 21: 1691-1695, 1929.
Biol. Abstr. #28298, 1930.
- Boyé.
Results of vaccination against plague in French colonies. Bull. Off. Internat. d'Hyg. Pub. 24: 1610-1622, 1932.
- Boyé.
Results of vaccinations against plague in French colonies, Senegal, and Madagascar, in 1932. Bull. Off. Internat. d'Hyg. Pub. 25: 1933-1942, 1933.
- Brocq-Roussau; and Urbain, A.
Vaccination against toxin of bacillus of Preisz-Nocard. Compt. Rend. Soc. Biol. 93: 486-487, 1925.
- * Brooks, R. St. J.
The opsonic index in plague vaccination. Brit. Med. J. 2: 1098-1099, 1912.
- Brooks, H. St. J.
The opsonic index in plague vaccination. J. Hyg. Plague Suppl. 2. p. 373-382, 1912.
Trop. Dis. Bull. 1: 546, 1913.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Buchana, G. S.

Preparation of anti-plague vaccines at the Lister Institute. Bull. Off. Internat. d'Hyg. Pub. 24: 1626-1630, 1932.

Burgess, A. S.

Selection of strain of *Bacillus pestis* for preparation of vaccine, with special reference to effect of animal passage on virulence. J. Hyg. 26: 152-162, 1927. Biol. Abstr. #8087, 1929. Trop. Dis. Bull. 24: 938, 1927.

Calmette, A.

Bubonic plague; its clinical forms in its recent centres; bacteriology; diagnostic experimentation; antiplague sero-therapy; defensive measures against the plague; vaccinations; individual and general prophylaxis. J. State Med. London. 8: 795, 1900. 9: 1, 64, 1901.

Castej; and Lafont.

On the efficacy of Yersin's serum in the treatment of plague. Bull. Acad. Méd. 61: 224-226, 1909.

Chin, F.

Results of prophylactic inoculations with killed cultures made at Fuchiatien. Rept. Internat. Plague Conf., 1911. p. 101.

Choksy, W. H.

Serum therapy of plague in India. Indian Med. Rec., Calcutta. 28: 1, 1908.

Collignon.

Prophylaxis and treatment of plague. Arch. de Méd. et Pharm. Mil. 76: 451-463, 1922.

* Compton, Arthur.

Immunization in experimental plague by subcutaneous inoculation with bacteriophage, comparison of plain and formaldehyde-treated phage-lysed plague vaccine. J. Infec. Dis. 46: 152-160, 1930.

* Compton, Arthur.

Sensitization and immunization with bacteriophage in experimental plague. J. Infec. Dis. 43: 448-457, 1928.

* Compton, Arthur.

Studies on immunity in experimental plague. Ann. Inst. Pasteur. 45: 754-767, 1930. Biol. Abstr. #28281, 1931.

Cyrino, M. T. R.

Pasteurella pestis; prophylaxis and treatment of plague. Rev. Quimica Farm. 15: 39-65, 1950.

Dawson, A. S.

Treatment of bubonic plague by intravenous injections of anti-plague serum. Indian Med. Gaz. 62: 691-692, 1929.

Delpy, L. P.

Control of the harmlessness and efficacy of antiplague vaccine. Arch. Inst. Hessearek. No. 7: 40-44, 1953.

De Smidt, F. P. G.

Bacteriology of Nairobi plague prophylactic. Kenya and East African Med. J. 5: 77-92, 1928. Trop. Dis. Bull. 26: 99, 1929.

De Smidt, F. P. G.

Nairobi plague prophylactic; its potency. Kenya and East African Med. J. 4: 364-378, 1928. Trop. Dis. Bull. 25: 675, 1928.

De Smidt, F. P. G.

Nairobi plague prophylactic vaccine; further notes on preparation and potency. East African Med. J. 9: 227-236, 1932.

De Smidt, F.

Problem of plague and protective vaccines; semi-technical commentary. Kenya & East African Med. J. 4: 210-223, 1927.

Devignat, R.

Characteristics of plague in the Belgian Congo. Rev. Colon. Med. Chir. 24: 148-156, 1952.
Trop. Dis. Bull. 50: 25-26, 1953.

Devignat, R.

Plague prevention in Lake Albert region by rat destruction combined with vaccination with Girard-Robic vaccine. Bull. Soc. Path. Exot. 42: 43-52, 1949.
Trop. Dis. Bull. 46: 737, 1949.

De Vogel, W.

Antiplague vaccination at Java with living virus: results as registered to July 11, 1936. Bull. Off. Internat. d'Hyg. Pub. 29: 514-527, 1937.
Trop. Dis. Bull. 34: 791, 1937.

De Vogel, W.

Vaccination against plague with living virus in Netherland Indies. Bull. Off. Internat. d'Hyg. Pub. 27: 1542-1545, 1935.

D'Hostalrich.

Treatment of plague and the value of Yersin's serum. Rev. de Méd. et d'Hyg. Trop. 9: 225-227, 1912.
Trop. Dis. Bull. 1: 552, 1913.

* Dieudonne, A.; and Otto, R.

Pest. In: Handbuch der pathogenen Mikroorganismen, by W. Kolle, R. Kraus, and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928. v. 4, p. 179-412.

Donatien, A.; and Plantureux, E.

Modern technic of preparing antiserum (phenolic plasma) at Pasteur Institute of Algeria. Arch. Inst. Pasteur d'Algérie. 19: 72-77, 1941.

Doorenbos, W.

Observations for guidance in the test of P. C. Flu for immunization against plague, together with some experiences with plague and plague bacteriophage. Nederlandsch. Tijdschr. Geneesk. 73: 5472-5482, 1929.
Biol. Abstr. #20581, 1931.
Trop. Dis. Bull. 27: 737, 1930.

Dowdeswell, R. M.

Plague vaccine. East African Med. J. 19: 26-29, 1942.
Trop. Dis. Bull. 39: 688, 1942.

Dujardin-Beaumetz, E.

Technique of antiplague vaccination. J. Méd. Franç. Paris. 19: 86, 1921.

* Ebersson, Frederick.

Active immunity to systemic plague infection. J. Infec. Dis. 22: 62-73, 1918.

* Figueiredo de Vasconcellos.

Historical note on the preparation of antiplague vaccine by Oswaldo Cruz at the Institute of Manguinhos. Mem. do Inst. Oswaldo Cruz. 15: 58-66, 1922.

Flu, P. C.

Experiments on immunization against plague. Mededeel. Geneesk. Lab. Weltevreden. 3d Ser. A. No. 4: 133-175, 1919.

Flu, P. C.

Experiments in immunization against plague. Geneesk. Tijdschr. f. Nederl.-Indie. 60: 181-223, 1920.
Trop. Dis. Bull. 17: 396, 1921.

Flu, P. C.

The immunity of the common fowl (Gallus domesticus) from plague. Meded. Geneesk. Lab. Weltevreden. 3d Ser. A. No. 4: 116-132, 1919.
Trop. Dis. Bull. 16: 48, 1920.

Flu, P. C.

Immunization of rats against plague by concentrated bacteriophage prepared from virulent plague bacilli. *Nederl. Tijdschr. v. Geneesk.* 73: 4010-4020, 1929.
Biol. Abstr. #8006, 1931.
Trop. Dis. Bull. 27: 736, 1930.

Flu, P. C.

Immunization of rats against plague by means of bacteriophage lysts of concentrated suspensions from virulent plague bacteria. *J. Trop. Med.* 32: 353-356, 1929.
Biol. Abstr. #1517, 1931.
Trop. Dis. Bull. 27: 736, 1930.

Flu, P. C.

Immunization of rats against plague with extracts of virulent plague bacilli. *Geneesk. Tijdschr. f. Nederl. Indië.* 69: 1060-1072, 1929.

Flu, P. C.

Immunization of rats by means of concentrated suspensions of virulent plague bacilli dissolved by antiplague bacteriophage. *Acta Leidensia Scholae Med. Trop.* 9: 1-20, 1934.
Biol. Abstr. #18826, 1936.

* Flu, P. C.

Immunization of rats by means of concentrated suspension of virulent plague bacilli lysed by antiplague bacteriophage. *Bull. Soc. Path. Exot.* 26: 796-806, 1933.

Flu, P. C.

Immunization of rats against plague by use of extracts of virulent plague bacilli in solvent of plague bacteriophage. *Arch. f. Schiffs. u. Tropen-Hyg.* 33: 223-232, 1929.
Biol. Abstr. #17445, 1931.
Trop. Dis. Bull. 27: 736, 1930.

Flu, P. C.

Immunization of white rats with aqueous extracts of virulent plague bacilli. *Compt. Rend. Soc. Biol.* 100: 835-837, 1929.
Trop. Dis. Bull. 26: 638, 1929.

Flu, P. C.

Immunization of white rats with plague bacilli lysed by anti-plague bacteriophage. *Compt. Rend. Soc. Biol.* 100: 837-838, 1929.
Trop. Dis. Bull. 26: 638, 1929.

Flu, P. C.

Plague bacteriophage and prophylaxis and treatment of experimental plague. *Geneesk. Tijdschr. v. Nederl. Indië.* 69: 958-966, 1926.
Trop. Dis. Bull. 27: 737, 1930.

* Flu, P. C.

Plague immunization in rats with phage extracts of virulent plague bacteria; bacteriophage as a solvent. *Zent. f. Bakt. Abt. I.* 113: 473-480, 1929.
Biol. Abstr. #8783, 1933.

Flu, P. C.

Preventive inoculation against plague with bacteriophage from concentrated suspensions of plague bacilli. *Nederl. Tijdschr. f. Geneesk.* 1: 2102-2115, 1929.

* Frost, W. H.

Active and passive immunization against plague. *Pub. Health Repts.* 27: 1361-1371, 1912.

Galeotti.

Prophylactic inoculation with nucleoproteid. *Rept. Internat. Plague Conf.* 1911. p. 99-101, 1912.

Gaud, M.

Vaccination in course of plague epidemic in southern Morocco. *Bull. Off. Internat. d'Hyg. Pub.* 22: 271-273, 1930.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Geltenkov, A. I.

Study of typhus vaccine, the anti-toxin, antitoxic antiplague serum, and the technic of its standardization with white mice. Vest. Mikro. Epidemiol. i Parazitol. 17: 272-301, 1938.
Biol. Abstr. #9172, 1943.

Ghia, C. J.

Notes on plague inoculation. Indian Med. Gaz. 53: 290, 1918.

* Girard, Georges.

Essential characters in strains of plague for use as living vaccines. Ann. Inst. Pasteur. 67: 365-367, 1941.
Trop. Dis. Bull. 39: 763, 1942.

Girard, Georges.

Immunity in plague; recent progress. Rev. Méd. Franç. 23: 251-254, 1942.

Girard, Georges.

Immunity of hedge hog and Tanrec to experimental plague. Compr. Rend. Soc. Biol. 106: 1078-1080, 1931.

Girard, Georges.

Inadequate immunization of animals to plague with production of pneumonia and its applicability to man. Bull. Soc. Path. Exot. 36: 218-222, 1943.
Trop. Dis. Bull. 42: 377, 1945.

* Girard, Georges.

Living anti-plague vaccine. Proc. 4th Internat. Congr. Trop. Med. & Malaria. 1: 257-263, 1948.

Girard, Georges.

Present status of vaccination. Rev. de Path. Comparée. 46: 461-466, 1946.

Girard, Georges.

Results of vaccination with living plague bacilli. Ann. de Méd. 42: 478-495, 1937.

Girard, Georges.

Vaccination of man against plague with living vaccine. First results acquired in Madagascar. Bull. Acad. de Méd. Paris. 114: 16-23, 1935.

* Girard, Georges; and Quimaud, J.

Antiplague immunization of guinea pigs. Bull. Soc. Path. Exot. 17: 471-475, 1924.
Trop. Dis. Bull. 22: 381, 1925.

Girard, Georges; and Robic, J.

Antiplague vaccination with living vaccine in Madagascar. Acta Convent. Tertii de Trop. Atque Malar. Mcribis. 1: 335-353, 1938.

Girard, Georges, and Robic, J.

Considerations of the possibilities of vaccination of man against plague. Gaz. Med. France. p. 663-669, 1935.

Girard, Georges; and Robic, J.

Human vaccination with living plague bacilli: application in Madagascar. Bull. Off. Internat. d'Hyg. Pub. 28: 1077-1087, 1936.
Trop. Dis. Bull. 33: 877, 1936.

Girard, Georges; and Robic, J.

Immunization against plague with living bacilli: results of three years use in Madagascar. Bull. Acad. Med. Paris. 120: 54-60, 1938.
Trop. Dis. Bull. 36: 314, 1939.

Girard, Georges; and Robic, J.

The present state of plague in Madagascar: prophylactic use of the E.V. vaccine. Bull. Soc. Path. Exot. 35: 42-49, 1942.
Trop. Dis. Bull. 40: 777, 1943.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Girard, Georges; and Robic, J.
Vaccination against plague by means of a living strain of Yersin's bacillus, with attenuated virulence. Bull. Acad. Med. Paris. 111: 939-945, 1934.
Trop. Dis. Bull. 31: 885, 1934.

Gispen, R.
Vaccination against plague in Java. Ned. Tijdschr. v. Geneesk. 92: 1567-1569, 1948.

Gorain, N. N.
Length of immunity following antiplague infections. Arch. Vet. Nauk. St. Petersburg. 43(Pt. 2): 387-403, 1913.

Gorokhov, V. I.
Comparative evaluation of plague vaccines prepared by different methods. Vest. Mikrobiol. Epidemi. i Parazitol. 19: 490-507, 1940.

Graham, J. D.
Results of vaccination against plague in Punjab. Bull. Off. Internat. d Hyg. Pub. 24: 1610-1622, 1932.

- * Grasset, E.
Control of plague by means of live avirulent plague vaccine in southern Africa, 1941-1944. Trans. Roy. Soc. Trop. Med. & Hyg. 40: 275-294, 1946.

Grasset, E.
Live plague vaccine as a prophylactic against plague. South African Med. J. 15: 373-375, 1941.
Trop. Dis. Bull. 39: 311, 1942.

- * Grasset, E.
Plague immunization with live vaccine in South Africa. Trans. Roy. Soc. Trop. Med. & Hyg. 35: 203-211, 1942.
Biol. Abstr. #1492, 1942.
Trop. Dis. Bull. 39: 312, 1942.

Grasset, E.
Present status and improvement of the methods for preventing plague. Acta Tropica, Basle. 6: 53-54, 1949.
Excerpta Med. IV. #2809, 1950.

Haffkine, W. M.
Antiplague inoculations. Bull. Inst. Pasteur. 4: 825-840, 1906.

Haffkine, W. M.
Concerning inoculation against plague and pneumonia and experimental study of therapeutic methods. Indian Med. Gaz. 50: 121-131; 175-180; 211-213, 1915. Also: J. Hyg. 15: 64-191, 1915.
Trop. Dis. Bull. 6: 416, 1915.

Haffkine, W. M.
A contribution on the preventive inoculation against plague on the 3rd of January. Poona, 1898. 8p.

Haffkine, W. M.
Experiment on the effect of protective inoculation in the epidemic of plague at Undhera, Taluka Baroda, February and March, 1898. Bombay, 1898. 9p.

Haffkine, W. M.
Plague prophylactic. Indian Med. Gaz. 32: 201, 1897.

Haffkine, W. M.
On prophylactic inoculation against plague and pneumonia. Calcutta, 1914. 36p.

- * Haffkine, W. M.
Report on a series of 484 cases of plague treated with Lustig's anti-plague serum. Ind. Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India. Calcutta, 1905. p. 28-36.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

- Haffkine, W. M.
Report on the preventive inoculations against the plague during the epidemic of 1897-1898. Bombay, 1898. 18p.
- Haffkine, W. M.; and Costello, C. T.
Report on a series of 110 cases of plague treated with Terni's anti-plague serum. In: Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India. Calcutta, 1905. p. 37-46.
- Haffkine, W. M.; and West, W. G.
Report on a series of 70 cases of plague treated with Brazil's anti-plague serum. In: Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India. Calcutta, 1905. p. 47-59.
- Handuroy, P.; and Neveu.
Vaccination of animals sensitive to plague. Ann. d'Hyg. 9: 624-627, 1931.
- Henriques, Athos.
Laboratory procedure in plague prophylaxis. Bull. Ofic. Sanit. Panamer. 21: 227-230, 1942. Trop. Dis. Bull. 39: 55, 1942.
- * Hsue, L. T.
Experimental studies on living plague vaccines. Chinese Med. J. 62: 193-196, 1944.
- Ivanovsky, N.; and Faddeeva, T. D.
Effect of chloroform on anti-plague serum. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 404-409, 1935. Trop. Dis. Bull. 33: 876, 1936.
- * Jawetz, E.; and Meyer, K. F.
Avirulent strains of Pasteurella pestis. J. Infec. Dis. 73: 124-143, 1943.
- * Jawetz, E.; and Meyer, K. F.
The behavior of virulent and avirulent *P. pestis* in normal and immune experimental animals. J. Infec. Dis. 74: 1-13, 1944.
- * Jawetz, E.; and Meyer, K. F.
Studies on plague immunity in experimental animals. I. Protective and antitoxic antibodies in the serum of actively immunized animals. J. Immun. 49: 1-14, 1944.
- * Jawetz, E.; and Meyer, K. F.
Studies on plague immunity in experimental animals. II. Some factors of the immunity mechanism in bubonic plague. J. Immun. 49: 15-30, 1944.
- Joukov-Verejnikov, N.; and Lipatova, T.
Immunological studies on plague. I. The comparative value of anti-plague sera in the connection with the study of the significance of *B. pestis* fractions in the pathogenicity of plague by means of Schwartzman's phenomenon. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 257-266, 1933. Trop. Dis. Bull. 31: 886, 1934.
- Joukov-Verejnikov, N.; and Hworosuhina, M.
Immunology of plague. XIV. A method of producing antiplague vaccines of the B type. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 52-58, 1940. Biol. Abstr. #15017, 1941.
- Kasuga, C.; Yasui, M.; and Iwanaga, Y.
Studies on the immunity with living plague bacillus. II. Reaction of the human body to vaccination. Nippon Igaku and Kenko Hoken. 3218: 242, 1941. Biol. Abstr. #7324, 1942.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Khvorostukhina, M. M.

Application of flocculation reaction in titration of antiplague serum. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 29-34, 1934.

* Kitano, T.; and Sukegawa, K.

On sensitized plague vaccine and its practical application. Kitasato Arch. Exper. Med. 2: 67-86, 1918.

Kolle, W.; Hetch, H.; and Otto, R.

Further research on plague, especially on plague immunity. Zeitschr. f. Hyg. u. Infektionskr. 48: 368-456, 1904.

Kolle, W.; and Otto, R.

Research on plague immunity. Zeitschr. f. Hyg. u. Infektionskr. 45: 507-544, 1903.

Korobkova, E. I.

Comparative study of pathogenic and vaccinating properties of EV strain of Girard and Robic and of 46S variant of plague bacillus. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 3-31, 1940.

Korobkova, E. I.

New method of preparing devitalized vaccine. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 450-468, 1940.

Korobkova, E. I.

Research on the preparation and the conservation of emulsion vaccine EV. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 19-30, 1940.

Korobkova, E. I.

Use of avirulent strains of plague bacilli in preparation of antiserum. Vest. Mikrobiol. Epidemiol. i Parazitol. 16: 265-272, 1939.

Korobkova, E. I.; Favorissova, B.; and Kolesnikova, Z.

Contribution to the study of the vaccine AD. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 249-260, 1940. Biol. Abstr. #9179, 1943.

Korobkova, E. I.; and Kraynova, A. N.

Immunization against pneumonic plague by means of living vaccine. Vest. Mikrobiol. Epidemiol. i Parazitol. 18: 223-235, 1940.

Kraus, R.

Studies in epidemiology. Anti-plague serum prepared from dead bacilli, used in massive doses. Rev. Inst. Bact. Buenos Aires. 2: 125-150, 1919. Trop. Dis. Bull. 15: 66, 1920.

Kurauchi, K.; and Homma, H.

New purified and concentrated vaccine for plague: test of its efficiency. Bull. Off. Internat. d Hyg. Pub. 28: 1088-1096, 1936. Trop. Dis. Bull. 33: 877, 1936.

* Larson, C. L.; Philip, C. B.;

Wicht, W. C.; and Hughes, L.

Precipitin reactions with soluble antigens from suspensions of Pasteurella pestis or from tissues of animals dead of plague. J. Immun. 67: 289-298, 1951.

Laud, D. S.

Haffkine's anti-plague vaccine as a prophylactic against plague amongst primates. Vet. J. 84: 117-122, 1928. Trop. Dis. Bull. 25: 675, 1928.

Le Gall, R.

Plague in Madagascar. Bull. Off. Internat. d Hyg. Pub. 35: 318-348, 1943. Trop. Dis. Bull. 42: 280, 1945.

- Liston, W. G.
Report of the Bombay bacteriological laboratory for the year 1911.
Bombay, Govt. Central Press, 1912.
43p.
Trop. Dis. Bull. 1: 59-62, 1912.
- * Lloyd, B. J.
Plague - past, present and future.
J. Amer. Med. Assoc. 85: 729-731, 1925.
- Lloyd, B. J.
Vaccination against bubonic plague.
Bull. Off. Internat. d Hyg. Pub. 28: 1073-1077, 1936.
- * Macchiavello, Attilio
Evaluation of new drugs for the treatment and prevention of plague, especially bubonic. Bull. Paramer. Sanit. Bur. 28: 328-355, 1949.
- Mac Conkey, A. T.
The preparation of antitoxic plague sera. J. Hyg. Plague Suppl. No. 2. p. 387-391, 1912.
Trop. Dis. Bull. 1: 546-547, 1913.
- * McCoy, G. W. and Chapin, C. W.
Utility of antiplague vaccines and serums. Pub. Health Repts. 35: 1647-1650, 1920.
- Mackay-Dick, J.
Report on reactions to anti-plague serum. J. Roy. Army Med. Corps. 84: 33-34, 1945.
Trop. Dis. Bull. 42: 377, 1945.
- Malone, R. H., Avast, K. B. C. R. and Naidu, B. P. B.
Bactericidal power of blood of rats as measure of their immunity to plague. Indian J. Med. Res. 13: 121-129, 1925.
Trop. Dis. Bull. 23: 133, 1926.
- Mani.
Chemotherapy in plague. Bull. Off. Internat. d Hyg. Pub. 38: 800-807, 1946.
Trop. Dis. Bull. 45: 74, 1948.
- Maruyama, Y.
Relation between the changes in the leucocyte picture in rabbits inoculated with plague bacilli and the formation of antibodies.
Taiwan Igakkai Zasshi. No. 243: 1-4, 1925.
Trop. Dis. Bull. 23: 184, 1926.
- * Mayr, A.
Method of preparation of Lustig's anti-plague serum as employed by Drs. G. Polverini and A. Mayr in the Bombay Municipal laboratory at Parel until May, 1902. In: Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India. Calcutta, 1905. p. 71-72.
- * Mavshnikov, E.
On bubonic plague. Ann. Inst. Pasteur. 13: 737-752, 1897.
- * Meyer, K. F.
Immunity in plague: a critical consideration of some recent studies. J. Immunol. 64: 139-163, 1950.
- * Meyer, K. F.
Plague. Med. Clinics North America. 29: 745-765, 1945.
- * Meyer, K. F.
The prevention of plague in the light of newer knowledge. Ann. New York Acad. Sci. 48: 429-467, 1946.
- * Meyer, K. F. and Batchelder, A.
Local immunization of guinea pigs to cutaneous infection with Pasteurella isolated from wild rats. Proc. Soc. Exper. Biol. Med. 23: 730-734, 1926.
- * Meyer, K. F., Foster, L. E., Bakera, E. E., Sommer, H. and Larson, A.
Experimental appraisal of anti-plague vaccination with dead virulent and living avirulent plague bacilli. Proc. 4th Internat. Congr. Trop. Med. & Malaria. 1: 264-274, 1948.

XIII. Immunology. Prophylaxis. Antisera. Vaccines

- * Meyer, K. F.; Hoessly, G. F.; and Larson, A.
Mechanism of immunity in plague infections. *Science*. 108: 681, 1948.
- * Meyer, K. F.; Quan, S. F.; and Larson, A.
Prophylactic immunization and specific therapy of experimental pneumonic plague. *Ann. Rev. Tuberc.* 57: 312-321, 1948.
Biol. Abstr. #19104, 1949.
- * Meyer, K. F.; Quan, S. F.; McCrumb, F. R.; and Larson, A.
Effective treatment of plague. *Ann. New York Acad. Sci.* 55(6): 1228-1274, 1952.
- * Minerwin, S. M.; Stupnitzki, P. N.; and Tinker, J. S.
Antiplague vaccine A-D. *Zent. f. Bakt. Abt. I.* 133: 170-175, 1935.
Trop. Dis. Bull. 32: 455, 1935.
- Mitin, S. V.
Preparation of plague vaccines according to the Silber method. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 15: 199-203, 1936.
- Molinari, G.
Vaccination against pneumonic plague by respiratory route. *Riforma Med.* 46: 332, 1930.
- Morison, J.; Naidu, B. P. B.; and Avari, C. R.
The production of immunity against plague by vaccine. I. Haffkine's plague prophylactic. *Indian J. Med. Res.* 12: 313-320, 1924.
- Morison, J.; Naidu, B. P. B.; and Avari, C. R.
The production of immunity against plague by vaccine. II. Agar cultures. *Indian J. Med. Res.* 12: 321-326, 1924.
Trop. Dis. Bull. 22: 381, 1925.
- Morison, J.; Naidu, B. P. B.; and Avari, C. R.
The production of immunity against plague by vaccine. III. Immunization by oral administration of plague vaccine with and without bile. *Indian J. Med. Res.* 12: 327-330, 1924.
Trop. Dis. Bull. 22: 381, 1925.
- * Moses, Arthur
Studies in immunity against plague. *Mem. Inst. Oswaldo Cruz.* 6: 100-111, 1914.
- Naidu, B. P. B.; and Jung, J. S.
Immunizing value of Haffkine's plague prophylactic and other anti-plague vaccines compares. *Indian J. Med. Res.* 17: 199-213, 1929.
Biol. Abstr. #28429, 1930.
- Naidu, B. P. B.; and Jung, J. S.
Production of alkalinity by *B. pestis* in broth and effect of this alkalinity on toxicity and potency of the prophylactic. *Indian J. Med. Res.* 15: 335-341, 1927.
Trop. Dis. Bull. 25: 320, 1928.
- Naidu, B. P. B.; and Jung, J. S.
Standardization of Haffkine's plague prophylactic. *Far East. Assoc. Trop. Med., Trans. 7th Congr.*, 1927. 2: 65-83, 1928.
- Naidu, B. P. B.; and Jung, J. S.
The toxicity and the immunizing value of sensitized anti-plague vaccines. *Indian J. Med. Res.* 14: 319-321, 1926.
Trop. Dis. Bull. 24: 457, 1927.
- Naidu, B. P. B.; Jung, J. S.; and Kanakaka, K. H.
Preparation of potent antiplague serum in India. *Indian J. Med. Res.* 17: 1259-1305, 1930.
Biol. Abstr. #17505, 1931.
Trop. Dis. Bull. 27: 740, 1930.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Naidu, B. P. B.; Malone, R. H.; and
Avari, C. R.

Potency of Haffkine's plague pro-
phylactic. Indian J. Med. Res.
13: 823-834, 1926.

Naidu, B. P. B.; and Sathe, R. G.

Comparative value of antiplague
bilivaccine and Haffkine's plague
prophylactic. Indian J. Med. Res.
19: 987-992, 1932.

Biol. Abstr. #6100, 1934.

* Nicolle, Charles; Durand, Paul;
and Conseil, Ernest.

Prevention and treatment of pneu-
monic plague by pulverization of
vaccine at entrance to respiratory
passages. Arch. Inst. Pasteur de
Tunis. 19: 267-276, 1930.
Biol. Abstr. #16300, 1933.

Nicolle, Charles; Durand, Paul;
and Conseil, Ernest.

Preventive vaccination against
pneumonic plague by the respiratory
route. Gaz. Hôp. Civ. et Milit.
Paris. 103: 202-203, 1930.
Biol. Abstr. #17509, 1931.

Nicolle, Charles; Durand, Paul;
and Conseil, Ernest.

Vaccination against pneumonic
plague by the respiratory tract.
Compt. Rend. Acad. Sci. 190: 235-237,
1930.
Trop. Dis. Bull. 27: 35, 1930.

Nikanorov, S.

Glycerinated plague vaccine.
Klin. Zeitschr. Univ. Saratow.
3: 115-118, 1926.
Biol. Abstr. #6103, 1934.

Otten, L.

Experimental plague vaccination.
I. Dead vaccine. Geneesk.
Tijdschr. f. Nederl.-Indië.
73: 835-857, 1933.
Trop. Dis. Bull. 31: 35, 1934.

Otten, L.

Experimental vaccination in plague;
dead vaccine. Mededeel. Dienst. d.
Volksgezondh. in Nederl.-Indië.
22: 131-149, 1933.
Biol. Abstr. #6150, 1936.

Otten, L.

Experimental plague vaccination.
I. Dead vaccine. Meded. Dienst. d.
Volksgezondh. in Nederl.-Indië.
22(2): 61-80, 1933.
Trop. Dis. Bull. 31: 35, 1934.

Otten, L.

Immunization against plague with
dead and live vaccine. Mededeel.
Dienst d. Volksgezondh. in Nederl.-
Indië. 27: 111-123, 1938.
Biol. Abstr. # 6717, 1938.
Trop. Dis. Bull. 35: 757, 1938.

Otten, L.

Immunization against plague with
live vaccine. Indian J. Med. Res.
24: 73-101, 1936.
Trop. Dis. Bull. 34: 417, 1937.

Otten, L.

A live plague vaccine and the
results. Mededeel. Dienst. d.
Volksgezondh. in Nederl.-Indië.
30: 61-110, 1941.
Biol. Abstr. #23864, 1941.
Trop. Dis. Bull. 39: 309-310, 1941.

Otten, L.

The living plague vaccines and
their results. Geneesk. Tijdschr.
Nederland-Indië. 80: 2878-2950, 1940.
Biol. Abstr. #15025, 1941.
Trop. Dis. Bull. 38: 330, 1941.

Otten, L.

Vaccination against plague in
Java. Geneesk. Tijdschr. f. Nederl.-
Indië. 75: 1850-1864, 1935.
Biol. Abstr. #21469, 1936.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

- Patel, T. B.
Specific plague treatment by sera and vaccines. Far East Assoc. Trop. Med. Trans. 7th Congr., 1927.
2: 124-129, 1928.
- Patel, T. B.; and Rebello, J. L.
An assessment of the value of plague vaccine as used in a single dose mass inoculation. A field inquiry. Indian Med. Gaz. 83: 151-155, 1948.
Biol. Abstr. #12836, 1950.
Trop. Dis. Bull. 46: 35, 1949.
- * Petrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council. A system of bacteriology in relation to medicine. London, HMSO, 1929.
v. 3, p. 137-224.
- Piccininni, F.
Epidemiological and anatomic-pathologic observations on plague in rats; experimental research on the immunity of the rat against plague. Ann. d'Ig. 30: 484-496, 1920.
- Piquero, A. R.
Epidemiology and prophylaxis of plague. Rev. Méd. Buenos Aires. 4: 339-345, 1942.
- Pirie, J. H. H.
Experiments with vaccines, sera, etc. in prophylaxis and treatment of plague. Pub. South African Inst. Med. Res. 3: 187-206, 1927.
- Pirie, J. H. H.; and Grasset, E.
Concentrated antiplague serum. Brit. J. Exper. Path. 16: 126-128, 1935.
Biol. Abstr. #16281, 1936.
- Pirie, J. H. H.; and Grasset, E.
Plague: killed versus live organisms for protective immunization and for preparation of curative serum. South African Med. J. 12: 294-296, 1938.
- Pokrovskaya, M.
Prophylactic vaccination against plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 376-385, 1935.
Trop. Dis. Bull. 33: 876, 1936.
- * Pollitzer, R.
Immunology. In: Plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936.
Chap. 3, p. 92-138.
- Pollitzer, R.
Plague studies. 3. Problems in immunology. Bull. World Health Organization. 5: 165-226, 1952.
- * Pollitzer, R.
Plague studies. 10. Control and prevention. Bull. World Health Organization. 9: 457-552, 1953.
- Polysaccharide vaccine. Amer. Prof. Pharmacist. 13: 1013-1014, 1947.
Biol. Abstr. #21367, 1948.
- Pons, R.; and Advier, M.
Experimental studies on lipo- and aqueous plague vaccine. Negative phase and stimulation of infection by vaccination. Ann. de Med. Pharm. Colon. 31: 5-24, 1933.
Trop. Dis. Bull. 31: 34, 1934.
- * Raynal, G.
Oral antiplague vaccination in man. Bull. Soc. Path. Exot. 18: 235-241, 1925.
- * Raynal, M. J.
Epidemic of bubonic plague in Diego-Suarez; post mortem findings; serum therapy and vaccination. Bull. Soc. Path. Exot. 19: 592-604, 1926.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Reitano, U.

Value of living plague vaccine; tests on animals. Soc. Internaz. d. Microbiol. Boll. d. Sez. Ital. 9: 60-64, 1937.
Trop. Dis. Bull. 35: 215, 1938.

Reitano, U.

Vitality, virulence and immunizing power of dried plague bacilli. Soc. Internaz. d. Microbiol. Boll. d. sez. Ital. 9: 55-60, 1937.
Trop. Dis. Bull. 35: 215, 1938.

Results of vaccinations against plague; answers to questionnaire. Bull. Off. Internat. d'Hyg. Pub. 24: 1813-1860, 1932.
24: 238-299, 1932.

* Revo, V. M.; and Nikolskii, V. V.

The vaccinating properties of the glucido-lipidic complex produced by Pasteurella cultures. Zhur. Mikrobiol. Epidemiol. Immunobiol. No. 1-2: 75-79, 1942.
Biol. Abstr. #13300, 1945.

* Roques, P.

Preventive serotherapy of pulmonic plague. Bull. Soc. Path. Exot. 20: 579-583, 1927.

Rowland, Sydney.

Besredka's method of vaccination. J. Hyg. Plague Suppl. 2. p. 344-349, 1912.
Trop. Dis. Bull. 1: 544, 1913.

* Rowland, Sydney.

Experiments on the vaccination of animals against plague. J. Hyg. 10(Plague No.): 536-565, 1910.

* Rowland, Sydney.

Further experiments on vaccination against a body-strain of plague. J. Hyg. Plague Suppl. 4. p. 752-753, 1915.

* Rowland, Sydney.

Immunisation by living avirulent cultures. J. Hyg. Plague Suppl. 4. p. 756-759, 1915.

* Rowland, Sydney.

Immunization by pseudotubercle. J. Hyg. Plague Suppl. 4. p. 754-755, 1915.

* Rowland, Sydney.

The influence of race on the efficiency of the antigen. J. Hyg. Plague Suppl. 4. p. 759, 1915.

Rowland, Sydney.

Observations on the mechanism of plague immunity. J. Hyg. Plague Suppl. 2. p. 358-366, 1912.
Trop. Dis. Bull. 1: 545, 1913.

* Rowland, Sydney.

On the failure to vaccinate against a virulent body-strain even with an antigen prepared as far as possible under body conditions. J. Hyg. Plague Suppl. 4. p. 760-761, 1915.

Rowland, Sydney.

The onset and duration of the immunity consequent on the inoculation of plague nucleoprotein. J. Hyg. Plague Suppl. 2. p. 367-372, 1913.
Trop. Dis. Bull. 1: 546, 1913.

* Rowland, Sydney.

Preliminary observations on the protective and curative value for rats of the serum of a horse immunized with a toxic nucleo-protein extracted from the plague bacillus. J. Hyg. Plague Suppl. 1. p. 11-19, 1911.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

* Rowland, Sydney.

The protective and curative value, against infection with a serum race of plague, and of the serum of a horse immunized with nucleoprotein extracted from a strain of plague bacilli propagated on serum protein. J. Hyg. Plague Suppl. 4. p. 762-764, 1915.
Trop. Dis. Bull. 5: 398, 1915.

Rowland, Sydney.

The relation of pseudo-tubercle to plague as evidenced by vaccination experiments. J. Hyg. Plague Suppl. No. 2. p. 350-357, 1912.
Trop. Dis. Bull. 1: 544-545, 1913.

* Rowland, Sydney.

Second report on investigations into plague vaccines. J. Hyg. Plague Suppl. 1. p. 20-46, 1911.

* Rowland, Sydney.

Ultraviolet light as a germicide in the preparation of plague vaccine. J. Hyg. Plague Suppl. 4. p. 765-769, 1915.
Trop. Dis. Bull. 5: 399, 1915.

Rueggsegger, J. M.; and Gilchrist, H.

Present outlook in plague. Indian Med. Gaz. 84: 159-161, 1949.
Trop. Dis. Bull. 46: 935, 1949.

Rueggsegger, J. M.; and Gilchrist, M.

Plague: a survey of recent developments in the prevention and treatment of disease. Amer. J. Trop. Med. 27: 683-689, 1947.
Biol. Abstr. #9465, 1948.
Trop. Dis. Bull. 45: 333, 1948.

Sahasrabudde, G. S.

The intravenous use of anti-pestis serum in plague. Indian Med. Gaz. 58: 488-490, 1923.

* Sandor, G.; Girard, Georges;

Skrobisz, C.; and Chevallier, A.
Study on antiplague horse serum. Ann. Inst. Pasteur. 74: 516-517, 1948.

Savino, E.

Living plague vaccine for man. Bol. Sanitario. 7: 103-111, 1943.
Trop. Dis. Bull. 43: 36, 1946.

* Savino, Enrico; and Anchesar, B.

Experimental antiplague vaccination with living bacteria. Rev. Inst. Bact. Buenos Aires. 9: 122-141, 1939.
Biol. Abstr. #2503, 1941.
Trop. Dis. Bull. 37: 426, 1940.

Schein, H.; and Jacotot, M.

Practical experience in the conservation of antiplague serum. Bull. Econ. Indochine Reseign. 29: 752-754, 1926.
Biol. Abstr. #1751, 1928.

Schut, J.

Treatment of plague with ommadin (vaccine). Geneesk. Tijdschr. v. Nederl. Indië. 71: 1059-1069, 1931.
Trop. Dis. Bull. 29: 374, 1932.

* Schut, J.

Value of ommadin in prophylaxis of pneumonic plague in Java. Arch. f. Schiffs. u. Tropen-Hyg. 34: 223-227, 1930.

Schütze, Harry.

Bacillus pestis antigens as prophylactic agents. Brit. J. Exper. Path. 20: 235-244, 1939.
Biol. Abstr. #2868, 1940.
Chem. Abstr. 34: 129.

Schütze, Harry.

Envelope antigen of B. pestis and its antibody. Brit. J. Exper. Path. 15: 200-206, 1934.
Biol. Abstr. #1158, 1936.

- Schütze, Harry.
Plague immunisation in guinea pigs and rats. Brit. J. Exper. Path. 6: 207-210, 1925.
Trop. Dis. Bull. 23: 185, 1926.
- * Schütze, Harry.
Studies in B. pestis antigens.
I. Antigens and immunity reactions of B. pestis. Brit. J. Exper. Path. 13: 284-288, 1932.
Biol. Abstr. #8824, 1933.
- * Schütze, Harry.
Studies in B. pestis antigens.
III. Prophylactic value of envelope and somatic antigens of B. pestis. Brit. J. Exper. Path. 13: 293-298, 1932.
Biol. Abstr. #8826, 1933.
- * Seal, S. C.
Studies on the specific soluble protein of Pasteurella pestis and allied organism. I. Isolation, fractionation and certain physical, chemical, and serological properties. J. Immun. 67: 93-108, 1951.
- * Seal, S. C.
Studies on the specific soluble proteins of Pasteurella pestis and Pasteurella pseudotuberculosis. II. Complement-fixing and immunogenic properties. J. Immun. 71: 169-176, 1953.
- Shibayama, G.
Experiments on prophylactic inoculation against experimental plague pneumonia in guinea pigs. Far Eastern Assoc. Trop. Med. Trans. 2d Biennial Congr., 1912.
p. 130-147.
Trop. Dis. Bull. 1: 317, 1913.
- * Silverman, M. S.; Elberg, S. S.; Meyer, K. F.; and Foster, L.
Studies on immunization against plague. III. Quantitative serological studies on a immunizing antigen of Pasteurella pestis. J. Immun. 68: 609-620, 1952.
- Sinclair, A. N.
Yersin-Roux serum in the treatment of plague. J. Amer. Med. Assoc. 56: 332-335, 1911.
- * Sokhey, S. S.
Experimental studies in plague. I. Introduction. Indian J. Med. Res. 27: 313-319, 1939.
Trop. Dis. Bull. 37: 420, 1940.
- Sokhey, S. S.
New antiplague serum. Bull. Off. Internat. d'Hyg. Pub. 28: 1097-1100, 1936.
Trop. Dis. Bull. 33: 876, 1936.
- * Sokhey, S. S.; Habbu, M. K.; and Bharucha, K. H.
Hydrolysate of casein for the preparation of plague and cholera vaccines. Bull. World Health Organization. 3: 25-31, 1950.
- Sokhey, S. S.; and Maurice, H.
Biologic method of standardization and protective power of some antiplague vaccines measured by that method. Bull. Off. Internat. d'Hyg. Pub. 27: 1534-1541, 1935.
Trop. Dis. Bull. 33: 367, 1936.
- Sokhey, S. S.; and Maurice, H.
Relative protective power of plague vaccines prepared with strains killed by heat or with avirulent living strains. Bull. Off. Internat. d'Hyg. Pub. 29: 505-513, 1937.
Trop. Dis. Bull. 34: 790, 1937.
- Sokhey, S. S.; and Wagle, P. M.
Antiplague serum, sulphathiazole and sulphapyridine in the treatment of bubonic plague. Bombay, Rept. of the Haffkine Inst. for the years 1940 and 1941. p. 37-45.
Trop. Dis. Bull. 41: 37-38, 1944.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

Some aspects of the question of prophylactic inoculation against pneumonic plague. Rept. Internat. Plague Conf., 1911. p. 127-129.

Souknev, V.; Joukov-Verejnikov, N.; Favorissova, B.; and Kasanzeva, E.
Combined treatment of plague with bacteriophage and envelope, Paris and nucleoprotein antisera. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 387-392, 1935.
Trop. Dis. Bull. 33: 877, 1936.

Stevenson, W. D. H.; and Kapadia, R. J.
Experiments on onset of immunity after inoculation with Haffkine's antiplague vaccine, absence of "negative phase." Indian J. Med. Res. 12: 553-559, 1925.
Trop. Dis. Bull. 22: 776, 1925.

Stevenson, W. D. H.; and Kapadia, R. J.
Experiments on the toxicity and immunizing value of Haffkine's antiplague vaccine. Indian J. Med. Res. 12: 199-211, 1924-25.
Trop. Dis. Bull. 21: 882-883, 1924.

Stock, P. G.
Results of vaccination against plague in Union of South Africa. Bull. Off. Internat. d'Hyg. Pub. 24: 1623-1625, 1932.

Stocker, C. J.
Sensitized antiplague vaccine. Indian Med. Gaz. 59: 371-372, 1924.
Trop. Dis. Bull. 21: 830, 1924.

Stocker, C. J.; and Graham, G. F.
Preliminary notes on use of sensitized antiplague vaccine. Indian Med. Gaz. 59: 121-125, 1924.
Trop. Dis. Bull. 21: 880, 1924.

Strong, R. P.; and Teague, Oscar.
Protective inoculation against pneumonic plague. Far Eastern Assoc. Trop. Med. Trans. 2d Biennial Congr. 1912. p. 117-127.

* Strong, R. P.; and Teague, Oscar.
Studies on pneumonic plague and plague immunization. IX. Protective inoculation against pneumonic plague. Philippine J. Sci. 7B: 229-243, 1912.

Talih, S.
The value of antiplague vaccination. Rev. Prat. Mal. d. Pays Chauds. 12: 295-304, 1932.

Taylor, J.
Antiplague vaccination inquiry. Second report from Bombay. Bull. Off. Internat. d'Hyg. Pub. 24: 1813-1860, 1932.
Trop. Dis. Bull. 30: 167-168, 1933.

Taylor, J.
Haffkine's plague vaccine. Indian Med. Res. Memoirs No. 27. p. 3-125, 1933.
Trop. Dis. Bull. 30: 527-528, 1933.

* Teague, Oscar.
Biologic therapy. XV. Vaccination against plague. J. Amer. Med. Assoc. 76: 243-244, 1921.

Thierfelder, M. U.
Vaccination against plague with living vaccine according to Otten method. Geneesk. Tijdschr. v. Nederl. Indië. 76: 2325-2338, 1936.
Trop. Dis. Bull. 34: 416, 1937.

* Todd, P. J.
Plague treated with anti-pest serum. Bull. Soc. Path. Exot. 5: 459-462, 1912.
Trop. Dis. Bull. 1: 65, 1912.

Tumanski, V. M.
The vaccination of guinea pigs by the living bacillus of B. pestis EV. Girard and Robic. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 261-271, 1938.
Biol. Abstr. #9196, 1943.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

- * Villain, G.
Note on an epidemic of pulmonary plague in Haf-Ouled-Ahmed. Use of preventive antiplague vaccination by respiratory route during the course of the epidemic. Arch. Inst. Pasteur de Tunis. 19: 277-279, 1930. Biol. Abstr. #21646, 1933.

- Vincke, I.; and Janssens, P. G.
Experimental study of the relative merits of anti-plague immunization by living attenuated and dead vaccine. Rec. Trav. Sci. Med. Congo Belge. No. 1: 86-103, 1942. Trop. Dis. Bull. 40: 391, 1943.

- * Walker, D. L.; Foster, L. E.; Chen, T. H.; Larson, A.; and Meyer, K. F.
Studies on immunization against plague. V. Multiplication and persistence of virulent and avirulent Pasteurella pestis in mice and guinea pigs. J. Immun. 70: 245-252, 1953.

- * Wayson, N. E.; McMahon, M. C.; and Prince, F. M.
An evaluation of three plague vaccines against infection in guinea pigs induced by natural and artificial methods. Pub. Health Repts. 61: 1511-1518, 1946. Biol. Abstr. #3634, 1947. Trop. Dis. Bull. 44: 419, 1947.

- Weis, A.
Antiplague vaccination of guinea pigs. An. Inst. Nac. de Parasitol. 2: 111-125, 1929.

- * West, W. G.
Report on a series of 68 cases of plague treated with Roux anti-plague serum. In: Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India. Calcutta, 1905. p. 60-70.

- * World Health Organization. Technical Report Series No. 11.
Expert committee on plague. Report on the first session. Geneva, 19-24 Sept., 1949. 32p. Geneva, 1950.

- * Wu, C. Y.
General prophylaxis and management of epidemics. In: Plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936. Chap. 11, p. 424-484.

- * Yersin, A.
The serotherapy of bubonic plague. Ann. Inst. Pasteur. 11: 81-93, 1897.

- * Yersin, A.; Calmette, A.; and Borrel.
Bubonic plague. Ann. Inst. Pasteur. 9: 589-592, 1895.

- Zheltenkov, A.
Flocculating properties of anti-plague serums as well as "envelope" and somatic fractions of B. pestis and significance of the reaction of flocculation of their standardization. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 31-51, 1940. Biol. Abstr. #15034, 1941.

- Zheltenkov, A. I.
Plague microbe toxin and the antitoxic antiplague vaccines. Zhur. Mikrobiol. Epidemiol. i Immunobiol. No. 3: 81-82, 1946. Chem. Abstr. 40: 6549.

- Zheltenkov, A. I.
Plague toxin, anatoxin and antiserum and methods for their standardization using white mice. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 272-300, 1940.

XIII. Immunology. Prophylaxis. Antisera. Vaccines.

* Zhoukov-Verezhnikov, N. N.

Immunology of plague; theoretical principles of the pathology and immunology of plague. Zhur. Mikro. Epidemiol. i Immunobiol. No. 4-5: 34-41, 1945.

Zhoukov-Verezhnikov, N. N.;

Faddeeva, T.; Lipatova, T.; and Khvorostukhina, M.

Therapeutic antiplague sera obtained by immunization of horses with capsular antigens of plague bacilli. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 149-154, 1935.

Zhoukov-Verezhnikov, N. N.; and Khvorostukhina, M. M.

Immunology of plague; method for preparation of living vaccine of ZV type. Vest. Mikrobiol. Epidemiol. i Parazitol. 19: 52-57, 1940.

Zhoukov-Verezhnikov, N. N.; and Lipatova, T.

Immunology of plague. 1.

Comparative value of antiplague sera and study, by means of Schwartzman's phenomenon, of the significance of B. pestis fractions in plague pathogenesis. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 257-267, 1933-34. Biol. Abstr. #3878, 1937.

BIBLIOGRAPHY ON PASTEURILLA PESTIS AND PLAGUE.

XIV. THERAPY.

- Abbatucci.
Vaccine and serotherapy of plague.
Caducée, Paris. 12: 79, 1912.
- * Advier, M.
Study of a plague bacteriophage.
Bull. Soc. Path. Exot. 26: 94-99, 1933.
Trop. Dis. Bull. 30: 531, 1933.
- The Advisory Committee for Plague
Investigation in India.
The serum treatment of human
plague. J. Hyg. Plague Suppl. 2.
p. 326-339, 1912. Trop. Dis. Bull.
1: 543, 1913.
- Alayon, F.
Plague therapy by bacteriophage;
present status of question. Ann.
Paulist de Med. e Cir.
30: 569-572, 1935.
- Alverto, Videla C.
Treatment of plague. Dia Medico.
19: 1-4, 6, 1947.
Trop. Dis. Bull. 44: 659, 1947.
- * Bannerman, W. E., ed.
Scientific memoirs by officers
of the medical and sanitary depart-
ments of the government of India.
Serum therapy of plague in India.
Reports, by W. M. Haffkine, and
various officers of the plague re-
search laboratory, Bombay.
Calcutta, Off. of Superintendent of
Gov. Printing, 1905. 73p.
- * Bannerman, W. E.
Serum therapy of plague in India.
Introduction. In: Sci. Mem. by
Officers of the Med. & Sanit. Depts.
of Govt. of India. Calcutta, 1905.
p. 1-25.
- Bertarelli, E.
Chemoprophylaxis of plague; new
knowledge. Arq. de Biol.
31: 80-82, 1947.
- Bharadwaj, A. C.
Treatment of bubonic plague with
intravenous injections of iodine.
Indian Med. Gaz. 41: 62, 1926.
- Blanc, F.; and Martin, M.
The treatment of plague. Arch.
Méd. Gén. et Trop. 28: 183-188, 1951.
- Bombay, Haffkine Institute.
Report of the Haffkine Institute
for the year 1939. Studies on plague,
p. 3-6, 33-43.
Trop. Dis. Bull. 39: 300-301, 1942.
- Bombay. Haffkine Institute.
Report of the Haffkine Institute
for the years 1940 and 1941. Anti-
plague serum, sulphathiazole and
sulphapyridine in the treatment of
bubonic plague. p. 37-45.
Trop. Dis. Bull. 41: 37, 1944.
- Bonebakker, A.
Serum therapy in plague.
Geneesk. Tijdschr. v. Nederl.-Indië.
80: 2502-2511, 1940.
Trop. Dis. Bull. 38: 329, 1941.
- Bouillat.
Three cases of pulmonary plague
treated and cured in a field
hospital. Bull. Soc. Path. Exot.
44: 807, 1951.
- Brayne, W. F.
Intravenous eusol in plague.
Indian Med. Gaz. 52: 322, 1917.

XIV. Therapy.

- Burga Saavedra, Victor.
Two cases of bubonic plague successfully treated with sulphathiazole. *Actualidad Med. Peruana*. 8(2): 26-27, 1942.
- Burton, E.; and Hennessey, R. S. F.
An unusual case of plague with meningitis. *East African Med. J.* 17: 266-270, 1940.
- Capua Giuffre, D. A.
Iodine therapy of bubonic plague; case. *Policlinico, Sez. Prat.* 53: 588-589, 1946.
- Carman, J.
Prontosil in the treatment of Oriental plague. *East African Med. J.* 14: 362-366, 1938.
- * Castel; and Lafont.
Case of plague treated by anti-plague serum in massive intravenous injections. *Bull. Soc. Path. Exot.* 2: 195-199, 1909.
- Castel; and Lafont.
The efficacy of Yersin's serum in the treatment of plague. *Bull. Acad. de Méd.* 61: 224-226, 1909.
- Chabaneix, J.
Notes on the incubation period and treatment with serum. *Rept. Internat. Plague Conf.*, 1911. Manila, 1912. p. 170.
- * Chemotherapy of plague. *Brit. Med. J.* 2: 621-622, 1941.
- Chen, R. T. S.
Streptomycin in bubonic plague. *Chinese Med. J.* 67: 442-443, 1949. *Biol. Abstr.* #19558, 1950.
- Choksy, W. H.
Serum therapy of plague in India. *Indian Med. Rec., Calcutta*. 28: 1, 1908.
- Chopra, R. N.; De Monte, A.J.H.; and Chatterji, B. C.
A case of plague successfully treated with sulphapyridine. *Indian Med. Gaz.* 76: 89-90, 1941. *Trop. Dis. Bull.* 38: 629, 1941.
- * Chun, W. H.
Therapy and personal prophylaxis. In: *Plague, a manual for medical and public health workers*, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936. p. 334-382.
- Clark, B. M.; and Goldberg, S.
Pneumonic plague: recovery in a proved case. *South African Med. J.* 17: 57-60, 1943. *Trop. Dis. Bull.* 40: 605, 1943.
- Collignon.
Prophylaxis and treatment of plague. *Arch. de Méd. et Pharm. Mil.* 76: 451-463, 1922.
- Courtois, G.
Observations on the note by Fain et al. on the treatment of plague. *Ann. Soc. Belge de Méd. Trop.* 32: 405, 1952. *Trop. Dis. Bull.* 50: 305, 1953.
- Couvy, L.
The bacteriophage of the plague bacillus and its therapeutic use. *Medicine.* 13: 909-913, 1932.
- * Couvy, L.; and Popoff.
Treatment of plague by bacteriophage. *Bull. Soc. Path. Exot.* 23: 618-629, 1936. *Trop. Dis. Bull.* 28: 386, 1931.
- Dawson, A. S.
Treatment of bubonic plague by intravenous injections of anti-plague serum. *Indian Med. Gaz.* 62: 691-692, 1929.

XIV. Therapy.

Devignat, R.

Treatment of experimental plague of guinea pigs. Treatment of human plague; summary of observations made during 1928 at Lake Albert. *Rev. Sci. Méd. Française Moyen-Orient.* 2: 518-522; 580-581, 1943. *Biol. Abstr.* #24727, 1948.

De Villafane Lastra, T.

On outbreak of Oriental plague in Cordoba. Clinical-epidemiological studies and treatment of the disease. *An. Clin. e Inst. Eng. Inf.* 2: 141-181, 1940-1942.

De Villafane Lastra, T.

Sulphathiazole in the treatment of plague. *Rev. Assoc. Med. Argentina.* 59: 268-273, 1945. *Trop. Dis. Bull.* 42: 892, 1945.

De Villafane Lastra, T.; Goobar, J.K.; Roderio, M.; and Videla, L. F.

Treatment of oriental plague with special reference to sulfathiazole. *Primer Congr. Nac. Enferm. Endemo-Epidemicas, Buenos Aires.* 1: 586-593, 1942.

Trop. Dis. Bull. 41: 400, 1944.

De Villafane Lastra, T.;

Goobar, J. K.; and Wolaj, I. F.

Epidemiology of plague in Cordoba, Argentina. *Premier Congr. Nac. Enferm. Endemo-Epidemicas, Buenos Aires.* 1: 594-596, 1942. *Trop. Dis. Bull.* 41: 398, 1944.

De Villafane Lastra, T.;

Sosa Gallardo, J.; and

Fernando Videla, L.

Three cases of bubonic plague treated with sulphathiazole. *Semana Med.* 48: 1073-1079, 1941. *Trop. Dis. Bull.* 39: 309, 1942.

D'Hostalrich.

Treatment of plague and the value of Yersin's serum. *Rev. de Méd. et d'Hyg. Trop.* 9: 225-227, 1912. *Trop. Dis. Bull.* 1: 552, 1913.

* Dieudonne, A.; and Otto, R.

Peest. In: Kollé, W.; Kraus, R.; and Uhlenhuth, P., *Handbuch der pathogenen Mikroorganismen.* 3d ed. Jena, Gustav Fischer, 1928. v. 4, p. 179-412.

Dixit, S. S.

Treatment of plague by streptomycin and sulphonamides. *Antiseptic.* 48: 57-58, 1951.

Dowdeswell, R. M.

Estimation of the value of any new treatment in disease with special reference to plague. *East African Med. J.* 18: 258-260, 1941.

* Durand, Paul

Action of 693 M.B. in plague infection. *Bull. Soc. Path. Exot.* 32: 267-271, 1941.

* Durand, Paul.

Dagenan in the treatment of plague. *Arch. Inst. Pasteur de Tunis.* 28: 96-106, 1939.

Estrade, M. F.

A case of primary pulmonary plague treated and cured by streptomycin. *Bull. Soc. Path. Exot.* 41: 438, 1948.

* Estrade, M. F.

Bacteriophage in the treatment of bubonic plague. *Bull. Soc. Path. Exot.* 27: 609-611, 1934. *Trop. Dis. Bull.* 31: 884, 1934.

Estrade, R.

First cases of pneumonic plague cured by streptomycin. *Presse Méd.* 59: 328, 1951. *Excerpta Med.* VI. #7024, 1951.

Fain, A.; Schoetter, M.; and Ampe, R.

Cure of three cases of human plague in the plague-endemic area of Lake Albert. *Ann. Soc. Belge de Méd. Trop.* 31: 541-546, 1951. *Trop. Dis. Bull.* 49: 389, 1952.

XIV. Therapy.

Favarel, R.; Carriere, M.; and Chartres, A.

Cure of three cases of primary pneumonic plague by sulpha drugs. Bull. Soc. Path. Exot. 41: 506-511, 1948.

Feng, Tso-Hsin.

A report of proven case of primary pneumonic plague with recovery and a note on sulfadiazine prophylaxis in Foochow City. Chinese Med. J. 67: 547-550, 1949. Trop. Dis. Bull. 47: 737, 1950.

Flu, P. C.

Plague bacteriophage and prophylaxis and treatment of experimental plague. Geneesk. Tijdschr. v. Nederl.-Indië. 69: 958-966, 1929. Trop. Dis. Bull. 27: 737, 1900.

Fonquernie, J.

Epidemiology, clinical aspects and treatment of plague at Tananarive. Ann. de Méd. et de Pharm. Colon. 29: 246-286, 1931.

* Fonquernie, J.

Treatment of plague by bacteriophage. Bull. Soc. Path. Exot. 25: 677-678, 1932.

Galeotti.

Serum therapy in Bombay. Rept. Internat. Plague Conf., 1911. p. 118-124, 1912.

Ghosh, P. K.

An outbreak of plague in an epidemic form treated with streptomycin and sulfadiazine. Indian Med. Gaz. 85: 441-445, 1950.

Girard, Georges.

Chemotherapy of plague. Rev. Colon. Méd. Chir. 18: 18-24, 1946.

* Girard, Georges.

Consideration of the treatment of plague with bacteriophage. Bull. Soc. Path. Exot. 23: 936-942, 1930. Trop. Dis. Bull. 28: 386, 1931.

Girard, Georges.

Streptomycin in experimental pneumonic plague in guinea pig. Bull. Soc. Path. Exot. 42: 339-342, 1949. Trop. Dis. Bull. 47: 236, 1950.

Girard, Georges.

Streptomycin treatment in plague. Rev. Colon. Méd. Chir. 21: 2-4, 1949.

Girard, Georges.

Treatment of plague by sulphonamides, experimental and human. Bull. Soc. Path. Exot. 34: 37-48, 1941. Trop. Dis. Bull. 39: 308, 1942.

Girard, Georges.

Treatment of pneumonic plague with fungal antibiotics; 25 cases treated in Madagascar. Rev. Colon. Méd. Chir. 24: 174-180, 1952. Trop. Dis. Bull. 50: 111, 1953.

* Girard, Georges; and Girard, M.

Remarkable effectiveness of 693 M.B. p. aminobenzene sulfamidopyridine in the treatment of experimental plague. Bull. Soc. Path. Exot. 32: 470-482, 1939.

Guilliny, R.

Bacteriophage therapy of pneumonic plague in Madagascar. Marseille-Méd. 2: 641-653, 1931.

Gupta, A. K. D.

A short note on plague cases treated in Campbell hospital. Indian Med. Gaz. 83: 150-151, 1948. Biol. Abstr. #29632, 1949. Trop. Dis. Bull. 46: 35, 1949.

* Haddad, C.; and Valero, A.

Streptomycin in bubonic plague. British Med. J. 1: 1026-1027, 1948.

XIV. Therapy.

- Haffkine, W. M.
Concerning inoculation against plague and pneumonia and experimental study of therapeutic methods. *Indian Med. Gaz.* 50: 121-131; 175-180; 211-213, 1915. Also: *J. Hyg.* 15: 64-101, 1915. *Trop. Dis. Bull.* 6: 416, 1915.
- * Haffkine, W. M.
Report on a series of 484 cases of plague treated with Lustig's anti-plague serum. In: *Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India.* Calcutta, 1905. p. 28-36.
- * Haffkine, W. M.; and Costello, C. T.
Report on a series of 110 cases of plague treated with Terni's anti-plague serum. In: *Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India.* Calcutta, 1905. p. 37-46.
- * Haffkine, W. M.; and West, W. G.
Report on a series of 70 cases of plague treated with Brazil's anti-plague serum. In: *Sci. Mem. by Officers of the Med. & Sanit. Depts. of the Govt. of India.* Calcutta, 1905. p. 47-59.
- * Herbert, Denis.
Streptomycin in experimental plague. *Lancet.* 1: 626-630, 1947. *Biol. Abstr.* #1479, 1948. *Trop. Dis. Bull.* 44: 713, 1947.
- d'Herelle, F.
Treatment of bubonic plague by bacteriophage. *Presse Méd.* 33: 1393-1394, 1925. *Trop. Dis. Bull.* 23: 182, 1926.
- d'Herelle, F.
Treatment of plague with bacteriophage. *Médecine.* 17(Suppl.):23-32, 1936.
- * Hill, A. B.; and Bhagwat, S. Y.
Streptomycin in human plague. *Lancet.* 1: 203, 1949.
- * Hornibrook, J. W.
Streptomycin in experimental plague. *Pub. Health Repts.* 61: 535-538, 1946.
- * Huang, C. H.; and Chu, L. W.
Treatment of bubonic plague with sulfadiazine. *Amer. J. Trop. Med.* 26: 831-839, 1946. *Biol. Abstr.* #9298, 1947. *Trop. Dis. Bull.* 44: 419, 1947.
- * Huang, C. H.; Huang, C. Y.; Chu, L. W.; and Huang, T. F.
Pneumonic plague; report of a recovery in a proved case and a note on sulfadiazine prophylaxis. *Amer. J. Trop. Med.* 28: 361-371, 1948.
- Jospin, Robert; and Rajasonarivelo.
Treatment of pulmonary plague with streptomycin. *Bull. Soc. Path. Exot.* v. 44, no. 11-12, 1951.
- Kallat, S.
Recent experiences in the symptomatology and treatment of plague. *Indian Med. Gaz.* 79: 168-169, 1944.
- Kamal, A. M.; Gayed, I.; and Anwar, M.
On the epidemiology and treatment of plague in Egypt. *J. Egyptian Pub. Health Assoc.* p. 31-103, 1941. *Trop. Dis. Bull.* 41: 566, 1944.
- Karamchandani, P. V.
Streptomycin in tuberculosis, plague and allied conditions. *Indian Med. J.* 46: 227-232, 1952.
- * Karamchandani, P.V.; and Rao, K.S.
Streptomycin in human plague compared with other treatments. *Lancet.* 1: 96-97, 1949.

XIV. Therapy.

- Karamchandani, P. V.; and Rao, K. S.
Streptomycin in human plague;
preliminary communication.
Lancet. 1: 22, 1948.
- * Korobkova, E. I.
Chemotherapy of experimental
plague. Zhur. Mikrobiol. Epidemiol.
i Immunobiol. No. 6: 71-74, 1944.
Chem. Abstr. 39: 4399.
- Levin, W.; Becker, B. J. P.; and
Horwitz, B.
Two cases of pneumonic plague.
Recovery of one case treated with
streptomycin. South African Med.
J. 22: 699-703, 1948.
Trop. Dis. Bull. 46: 255, 1949.
- Lindberg, K.
Two cases of bubonic plague
treated by serum and mercurochrome.
Rev. d. Méd. Hyg. Trop. 23: 149-152,
1931.
- * Lloyd, B. J.
Plague - past, present and future.
J. Amer. Med. Assoc. 85: 729-731,
1925.
- * Macchiavello, Atilio.
Evaluation of new drugs for the
treatment and prevention of plague,
especially bubonic. Bull. Panamer.
Sanit. But. 28: 328-355, 1949.
- Macchiavello, Atilio.
Instructions for diagnosis, treat-
ment and isolation of plague cases
and for laboratory specimens.
Bull. Panamer. Sanit. Bur.
24: 704-712, 1945.
Trop. Dis. Bull. 43: 647, 1946.
- * McCrumb, F. R.; Larson, A.; and
Meyer, K. F.
The chemotherapy of experimen-
tal plague in the primate host.
J. Infec. Dis. 92: 273-287, 1953.
- * McCrumb, F. R.; Mercier, S.;
Robic, J.; Bouillat, M.;
Smadel, J. E.; Woodward, T. E.;
and Goodner, K.
Chloramphenicol and terramycin
in the treatment of plague. Amer.
J. Med. 14: 284-293, 1953.
- Mackay-Dick, J.
A brief report on 26 cases of
bubonic plague with the results of
treatment. J. Roy. Army Med. Corps.
85: 105-108, 1945.
Trop. Dis. Bull. 43: 128, 1946.
- Magrou, E.
An epidemic of bubonic plague at
Ferryville; treatment by sulpha-
diazine. Rev. Méd. Nav., Paris.
1: 105-121, 1946.
Trop. Dis. Bull. 44: 417, 1947.
- Magrou, E.
Treatment of plague by sulfa-
diazine. Bull. Soc. Path. Exot.
39: 113-119, 1946.
Trop. Dis. Bull. 43: 926, 1946.
- Maish, I. N.
Treatment of primary pneumonic
plague by the Zhoukov-Verezhnikov
method. Sovjetsk. Med. 2: 5-7,
1950.
Excerpta Med. IV. #96, 1951.
- Mani.
Chemotherapy in plague. Bull. Off.
Internat. d'Hyg. Pub. 38: 800-807,
1946.
Trop. Dis. Bull. 45: 74, 1948.
- Manson-Bahr, P.
Antibiotics in the treatment of
tropical disease. IV. Plague.
Med. World, London. 74: 544-545,
1951.
- Mathur, W.; and Goyal, R.
The treatment of plague with
sulphathiazole. Indian Med. Gaz.
80: 383-385, 1945.
Biol. Abstr. #13082, 1946.
Trop. Dis. Bull. 43: 217, 1946.

IV. Therapy.

- Mercier, M.
The cure of several cases of pulmonary plague with streptomycin at the hospital in Tananarive. *Bull. Soc. Path. Exot.* 44: 806-807, 1951.
- Mercier, M.
The first attempt of treatment of plague with chloromycetin. *Bull. Soc. Path. Exot.* 45: 402-408, 1952.
Trop. Dis. Bull. 49: 1042, 1952.
- Mercier, S.; and McGrumb, F. R.
First cure of pneumonic plague with chloromycetin. *Méd. Trop.* 12: 693-697, 1952.
- Mercier, S.; and McGrumb, F. R.
First cures of cases of pneumonic plague treated with terramycin. *Méd. Trop.* 12: 698-706, 1952.
- * Meyer, K. F.
Modern therapy of plague. *J. Amer. Med. Assoc.* 144: 982-985, 1950.
- * Meyer, K. F.
Plague. *Med. Clinics North America.* 27: 745-765, 1943.
- * Meyer, K. F.
The prevention of plague in the light of newer knowledge. *Ann. New York Acad. Sci.* 48(6): 429-467, 1946.
- * Meyer, K. F.; Quan, S. F.; and Larson, A.
Prophylactic immunization and specific therapy of experimental pneumonic plague. *Ann. Rev. Tuberc.* 57: 312-321, 1948.
Biol. Abstr. #19104, 1939.
- * Meyer, K. F.; Quan, S. F.; McGrumb, F. R.; and Larson, A.
Effective treatment of plague. *Ann. New York Acad. Sci.* 55(6): 1228-1274, 1952.
- Moreau, P.
Bubonic plague treated with associated M.V. virus vaccine and bacteramide (sulfanilamide derivative) per os; two cases. *Bull. Soc. Path. Exot.* 33: 289-292, 1940.
- * Munter, E. J.
Pneumonic plague. Report of a case with recovery. *J. Amer. Med. Assoc.* 128: 281-283, 1945.
- Naidu, B. P. B.; and Avari, G. R.
Bacteriophage in treatment of plague. *Indian J. Med. Res.* 19: 737-748, 1932.
Biol. Abstr. #6218, 1933.
Trop. Dis. Bull. 29: 675, 1932.
- Naidu, B. P. B.; and Jung, J. S.
Treatment of plague with mercurochrome 220 soluble. *Indian J. Med. Res.* 14: 323-328, 1926.
- * Naidu, B. P. B.; Mackie, F. P.; and Brist, D. P. H.
Serum therapy of plague. *Lancet.* 2: 893-897, 1931.
- Naidu, B. P. B.; and Sathe, R. G.
"Germanin" (Bayer 205) in treatment of plague. *Indian J. Med. Res.* 19: 749-759, 1932.
Biol. Abstr. #10806, 1933.
- Néel, R.
The effect of treatment by streptomycin on the virulence of *P. pestis* in experimental pneumonic plague of guinea pigs. *Bull. Soc. Path. Exot.* 44: 69-76, 1951.
Trop. Dis. Bull. 48: 629, 1951.
- Neveu, R.
Recent trends in the prophylaxis and treatment of plague. *Médecine, Paris.* 30(8): 15, 1949.

XIV. Therapy.

- * Nicolle, Charles; Durand, Paul; and Conseil, Ernest.
The prevention and treatment of pneumonic plague by pulverization of vaccine at entrance to respiratory passages. Arch. Inst. Pasteur de Tunis. 19: 267-276, 1930.
Biol. Abstr. #16300, 1933.
- Pal, R. D.
Intravenous iodine injections in plague. Indian Med. Gaz. 59: 348, 1924.
- Pal, R. D.
Serum treatment of plague. Indian Med. Gaz. 62: 569-570, 1927.
- * Petrie, G. F.
Bacillus pestis. In: Great Britain, Medical Research Council. A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.
- * Phillips, R. L.; and Barnes, L. H.
Treatment of Pasteurella pestis infection in mice. J. Franklin Inst. 235: 94-97, 1943.
- Pirie, J. H. H.
Experiments with vaccines, sera, etc. in prophylaxis and treatment of plague. Pub. South African Inst. Med. Res. 3: 187-206, 1927.
- Pirie, J. H. H.
Plague studies. I. Bacteriophage in the prophylaxis and treatment of experimental plague. Publ. South African Institute Med. Res. 4: 191-230, 1929.
Biol. Abstr. #20743, 1931.
Trop. Dis. Bull. 27: 738, 1930.
- * Platzer, R. F.
Evaluation of therapeutic agents in plague; review of literature. U.S. Naval Med. Bull. 46: 1674-1789, 1946.
- Pollitzer, R.
Plague and plague control in China. Chin. Med. J. 66: 328-333, 1948.
Excerpta Med. IV. #3232, 1950.
Trop. Dis. Bull. 46: 141-142, 1949.
- * Pollitzer, R.
Plague studies. 8. Clinical aspects. Bull. World Health Organization. 9: 59-129, 1953.
- Pollitzer, R.
Recent trends in the treatment and control of plague. Acta Tropica. 6: 30-40, 1949.
Trop. Dis. Bull. 46: 934, 1949.
- Pons, R.
Effect of repeated injections of dilute bacteriophage on the development of experimental plague. Compt. Rend. Soc. Biol. 114: 1066-1068, 1933.
Trop. Dis. Bull. 31: 308, 1934.
- * Pons, R.
Plague bacteriophage in vivo in man and laboratory animals. Bull. Soc. Path. Exot. 25: 437-447, 1932.
Trop. Dis. Bull. 29: 678, 1932.
- * Quan, S. F.; Chen, T. H.; and Meyer, K. F.
Protective action of antibiotics against the toxin of Pasteurella pestis in mice. Proc. Soc. Exper. Biol. Med. 75: 548-549, 1950.
Biol. Abstr. #14340, 1951.
- * Quan, S. F.; Foster, L. E.; Larson, A.; and Meyer, K. F.
Streptomycin in experimental plague. Proc. Soc. Exper. Biol. Med. 66: 528-532, 1947.
- Ramachandran, K.
Treatment of plague with aureomycin. J. Indian Med. Assoc. 21: 217-218, 1952.
Trop. Dis. Bull. 49: 618, 1952.

IV. Therapy.

- Ramalhao, C. F. M.
Plague. An. Inst. Med. Trop.,
Lisbon. 7: 49-63, 1951.
- * Ramon, Gaston; Girard, Georges;
and Richou, Rémy.
Influence on plague toxin of
filtrates from cultures of *B. sub-*
tillis, *Penicillium notatus* and
Actinomyces griseus. Compt. Rend.
Acad. Sci. 224: 1259-1261, 1947.
Trop. Dis. Bull. 44: 900, 1947.
- Bao, K. A.
An outbreak of plague in ^{Man}anded
with particular reference to treat-
ment with sulpha drugs and strepto-
mycin; a report on 407 cases.
Indian Med. Gaz. 87: 21-24, 1952.
Trop. Dis. Bull. 49: 769, 1952.
- A report of proven case of primary
pneumonic plague with recovery and
a note on sulfadiazine prophylaxis,
in Foochow City. Chinese Med. J.
67: 547-550, 1949.
- * Robic, J.
Note on the treatment of plague
by bacteriophage. Bull. Soc. Path.
Exot. 26: 756-760, 1933.
Biol. Abstr. #6158, 1936.
Trop. Dis. Bull. 31: 32, 1934.
- * Robic, M.
Serum therapy in primary plague
pneumonia. Bull. Soc. Path. Exot.
30: 204-208, 1937.
Trop. Dis. Bull. 34: 791, 1937.
- Roux, A. H.; and Mercier, C.
Five cases of primary pneumonic
plague with three cures. Bull. Soc.
Path. Exot. 39: 173-178, 1946.
Trop. Dis. Bull. 44: 207, 1947.
- * Rowland, Sydney.
The protective and curative
value against infection with a serum
race of plague, and of the serum of
a horse immunised with nucleoprotein
extracted from a strain of plague
bacilli propagated on serum protein.
J. Hyg. Plague Suppl. 4. p. 762-764,
1915.
Trop. Dis. Bull. 5: 398, 1915.
- * Rueggsegger, J. M.; and Gilchrist, M.
Plague: a survey of recent
developments in the prevention and
treatment of disease. Amer. J. Trop.
Med. 27: 683-689, 1947.
- * Savino, Enrico; and Villazon, N. M.
Action of sulphanilamide,
sulphapyridine and sulphathiazole
in experimental plague. Rev. Inst.
Bact. Buenos Aires. 11: 70-76,
1942.
Trop. Dis. Bull. 40: 306, 1943.
- * Schütze, Harry.
Chemotherapy in plague infection.
Lancet. 1: 266-268, 1939.
- Shamanna, D.; and Hedge, K. V.
Clinical impressions of plague
epidemic (with special reference
to sulfathiazole, sulfonamide
therapy). Indian Med. Gaz.
81: 432-433, 1946.
- Sharp, N. A. D.
Treatment of plague in Nigeria
with "Bayer 205". Trans. Roy.
Soc. Trop. Med. Hyg. 19: 482-484,
1926.
- Silva, E. C.
Prophylactic treatment of plague.
Bahia Med. 7: 177-179, 1936.
- Silva, Marcello
Diagnosis of plague in man and
rodents. Treatment. Arq. de Hig.
Rio de Janeiro. 11: 151-188, 1941.
Trop. Dis. Bull. 40: 50, 1943.

IV. Therapy.

- Simeons, A. T. W.; and Chhatre, K. D.
Further observations on plague.
Indian Med. Gaz. 82: 447-451, 1947.
Biol. Abstr. #16735, 1948.
Trop. Dis. Bull. 45: 332, 1948.
- Simeons, A. T. W.; and Chhatre, K. D.
One thousand cases of bubonic plague treated (especially with sulfathiazole and sulfadiazine, sulfonamides) in emergency plague hospital. Indian Med. Gaz. 81: 235-238, 1946.
Biol. Abstr. #9388, 1947.
Trop. Dis. Bull. 44: 77, 1947.
- Sinclair, A. N.
Yersin-Roux serum in the treatment of plague. J. Amer. Med. Assoc. 56: 332-335, 1911.
- * Smadel, J. E.; Woodward, T. E.; Amies, C. R.; and Goodner, K.
Antibiotics in the treatment of bubonic and pneumonic plague in man. Ann. New York Acad. Sci. 55(6): 1275-1284, 1952.
- * Sokhey, S. S.; and Dikshit, B. B.
Sulfathiazole in bubonic plague. Lancet. 1: 1040-1042, 1940.
- Sokhey, S. S.; and Habbu, M. K.
Aueromycin and chloromycetin in the treatment of experimental plague. Indian J. Med. Res. 38: 197-201, 1950.
Trop. Dis. Bull. 47: 1081, 1950.
- Sokhey, S. S.; and Wagle, P. M.
Anti plague serum, sulphathiazole and sulphapyridine in the treatment of bubonic plague. Bombay Report of the Haffkine Inst. for the years 1940 and 1941. p. 37-45.
Trop. Dis. Bull. 41: 37-38, 1944.
- Sokhey, S. S.; and Wagle, P. M.
A note on the use of sulphonamides in the treatment of plague in the field. Indian Med. Gaz. 81: 343-346, 1946.
Trop. Dis. Bull. 44: 418, 1947.
- * Sokhey, S. S.; and Wagle, P. M.
Sulphaenamides and antibiotics in the treatment of plague. Proc. 4th Internat. Congr. Trop. Med. & Malaria. 1: 276-282, 1948.
- Souknev, V.; Joukov-Verejnikov, N.; Favorissova, B.; and Kasanzeva, E.
Combined treatment of plague with bacteriophage and envelope, Paris and nucleoproteid anti-sera. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 387-392, 1935.
Trop. Dis. Bull. 33: 877, 1936.
- Soulage, J.; Farinaud, M. E.; Tauzin, M.; and Lefebvre, E.
Streptomycin in the treatment of plague in Indo-China. Med. Trop. 10: 537-548, 1950.
Trop. Dis. Bull. 48: 253, 1951.
- * Tien, T. H.; Landauer, E.; Miyagawa, F.; Kobayashi, G.; and Okayasu, G.
Primary pneumonic plague in Mukden, 1946, and report of 39 cases with 3 recoveries. J. Infec. Dis. 82: 52-58, 1948.
- Videla, C. A.
Clinical picture and treatment of plague. Rev. Assoc. Med. Argent. 61(597-600): 15-25, 1947.
- Wagle, P. M.
Recent advances in the treatment of bubonic plague. Indian J. Med. Sci. 2: 489-494, 1948.
Trop. Dis. Bull. 46: 141, 1949.

IV. Therapy.

Wagle, P. M.

Sulphadiazine in the treatment of bubonic plague. Indian Med. Gaz. 79: 585-589, 1944.
Biol. Abstr. #19112, 1945.
Trop. Dis. Bull. 42: 558, 1945.

Wagle, P. M.; and Bedarkar, M. K.

Pneumonic plague and its treatment. Indian Med. Gaz. 83: 406-408, 1948.
Trop. Dis. Bull. 46: 358, 1949.

Wagle, P. M.; Sokhey, S. S.;

Dikshit, B. B.; and Ganapathy, K.
Chemotherapy on plague. Indian Med. Gaz. 76: 29-32, 1941.
Trop. Dis. Bull. 38: 628, 1941.

* Wayson, N. E.; and McMahon, M. C.

Plague sulphadiazine treatment of guinea pigs infected by artificial methods or by flea transmission. Pub. Health Repts. 59: 385-401, 1944.

* Wayson, N. E.; and McMahon, M. C.

Plague; treatment of experimental animals with streptomycin, sulfa-diazine and sulfapyrazine. J. Lab. Clin. Med. 31: 323-332, 1946.

* Witlin, Bernard; and Wilbar, C.

Effect of penicillin on experimentally produced plague in guinea pigs. J. Lab. Clin. Med. 30: 237-243, 1945.

Zani, K. R.

Role of streptomycin in plague. Antiseptic. 49: 560-562, 1952.

Zavyalova, N. K.

Therapy of primary pulmonary form of plague. Klin. Med. 29(2): 29-31, 1951.

Zhoukov-Vereshnikov, N. N.; and Maiski, I. N.

Immunology of plague. Treatment of primary pneumonic plague. Klin. Med. 28(3): 9-14, 1950.

BIBLIOGRAPHY ON PASTEURURELLA PESTIS AND PLAGUE.

XV. EPIDEMIOLOGY. DISTRIBUTION & INCIDENCE. TRANSMISSION.

- * The Advisory Committee for Plague Investigation in India.
The experimental production of plague epidemics among animals. J. Hyg. 10(Plague No.): 315-334, 1910.
- * The Advisory Committee for Plague Investigation in India.
Observations on plague in Eastern Bengal and Assam. J. Hyg. Plague Suppl. 1. p. 157-192, 1911.
- * The Advisory Committee for Plague Investigation in India.
Observations on rat and human plague in Belgaum. J. Hyg. 10(Plague No.): 446-482, 1910.
- * The Advisory Committee for Plague Investigation in India.
Observations on rat and human plague in Poona. J. Hyg. 10(Plague No.): 483-535, 1910.
- * The Advisory Committee for Plague Investigation in India.
On the spread of epidemic plague through districts with scattered villages: with a statistical analysis, by Dr. M. Greenwood. J. Hyg. 10(Plague No.): 339-445, 1910.
- The Advisory Committee for Plague Investigation in India.
Plague in Madras City. J. Hyg. Plague Suppl. 2. p. 207-20, 1912.
Trop. Dis. Bull. 1: 537, 1913.
- The Advisory Committee for Plague Investigation in India.
Statistics of the occurrence of plague in man and rats in Bombay, 1907-1911. J. Hyg. Plague Suppl. 2. p. 221-226, 1912.
Trop. Dis. Bull. 1: 537, 1913.
- Alvarado, G. A.
Plague, North zone, Argentina. Bol. Sanit. 6: 169-171, 1942.
- * Ando, K.; Kurauchi, K.; and Nishimura, H.
A new plague endemic area in the north-eastern part of inner Mongolia. Plague studies I. Kitasato Arch. Exper. Med. 8: 24-38, 1931.
- Appel.
Epidemic of pneumonic plague at Conde-Smendou. Rev. d'Hyg. 54: 5-40, 1932.
- * Baltazard, M.; Bahmanyar, M.; Mofidi, C.; and Seydian, B.
The Kurdistan plague focus. Bull. World Health Organization. 5: 441-472, 1952.
- * Barreto, J. de B.; and de Castro, A.
Epidemiology of plague in Brazil. Mem. Inst. Oswaldo Cruz. 44: 505-527, 1946.
- * Battaglia, M. I.; and Uriarte, Leopoldo.
An outbreak of pneumonic plague in Merou in 1927. Rev. Inst. Bact. Buenos Aires. 6: 661-667, 1935.

XV. Epidemiology. Distribution & Incidence. Transmission.

- Belloni, L.
Plague and quarantine on the osella of Venice. *Ann. Med. Nav. e Colon.* 55: 379-383, 1950.
- Bernard, L.; Dounet, G.; and Jaujou.
An epidemic of bubonic plague at Ajaccio, 1945. *Rev. Trav. Inst. Nat. Hyg., Paris.* 2: 355-375, 1948.
- Boletin Sanitario, Buenos Aires.
Sanitary inspection of the port of Quequen and neighbourhood. *Boletin Sanitario.* 6: 459-465, 1942.
- Boye.
Relationship between pulmonary plague and temperature. *Off. Internat. Hyg. Publ. Bull. Mensuel.* 22: 274-276, 1930.
Biol. Abstr. #10737, 1932.
- * Brooks, R. St. J.
The Influence of saturation deficiency and of temperature on the course of epidemic plague. *J. Hyg. Plague Suppl.* 5. p. 881-899, 1917.
Trop. Dis. Bull. 10: 286, 1917.
- Carle, R.
The ecological complex which determines the chain of infection in tularemia, plague, malaria and sand-fly fever in South Russia. *Zeitschr. f. Tropenmed. u Parasit.* 2: 558-602, 1951.
Bull. Hyg. 26: 1085, 1951.
- Carter, C. L.
Bubonic plague on the island of Hawaii. *Hawaii Med. J.* 2: 296-298, 1943.
- Conseil, Ernest; and Durand, Paul.
Epidemiology of pneumonic plague in Tunis from December, 1929 to January, 1930. *Arch. Inst. Past. de Tunis.* 19: 229-244, 1930.
- Cossio, Pedro
Plague in Argentina. *Bol. Sanitario.* 6: 167-168, 1942.
- Creel, R. H.
Epidemiology of plague in New Orleans. *Amer. J. Trop. Dis. & Prevent. Med.* 3: 122-143, 1915.
Trop. Dis. Bull. 7: 174, 1916.
- Creel, R. H.
The extension of plague infection of the bubonic type. *Amer. J. Pub. Health.* 6: 191-221, 1916.
- * Creel, R. H.
Plague situation in the Western United States. *Amer. J. Pub. Health.* 31: 1155-1162, 1941.
- Cumpston, J. H. L.; and McCallum, F.
The history of plague in Australia 1900-1925. Commonwealth of Australia, Dept. of Health. Service publication no. 32. Melbourne, 1926. 238p.
Trop. Dis. Bull. 24: 929, 1927.
- d'Amato, H. J.
Control of plague in Argentina. *Bul. Ofic. Sanitaria Panamer.* 21: 656, 657, 1942.
- Davis, D. H. S.
Current methods of controlling rodents and fleas in the campaign against bubonic plague and murine typhus. *J. Res. San. Inst.* 69: 170-175, 1949.
- * Davis, D. H. S.
Sylvatic plague in South Africa: history of plague in man, 1919-1943. *Ann. Trop. Med. & Parasit.* 42: 207-217, 1948.
- * De La Barrera, J. M.
Contribution to the knowledge of sylvatic plague in Argentina; Characteristics of the outbreak in Mendoza in 1937. *Rev. Inst. Bact. Buenos Aires.* 8: 431-454, 1937.

IV. Epidemiology. Distribution & Incidence. Transmission.

* De la Barrera, J. M.
The last epidemic of sylvatic plague in Mendoza. Rev. Inst. Bact. Buenos Aires. 10: 390-393, 1942.

* De La Barrera, J. M.
Rural plague. Rev. Inst. Bact. Buenos Aires. 7: 439-506, 1936.

* De La Barrera, J. M.
Studies on sylvatic plague outbreak in Mendoza. Rev. Inst. Bact. Buenos Aires. 9: 565-586, 1940.

Devignat, R.
Characteristics of plague in the Belgian Congo. Rev. Colon. Med. Chir. 24: 148-156, 1952.
Trop. Dis. Bull. 50: 25-26, 1953.

Devignat, R.
Epidemiology of plague at Lake Albert. Ann. Soc. Belge de Méd. Trop. 26: 13-54, 1946.
Trop. Dis. Bull. 43: 1137, 1946.

Devignat, R.
Epidemiology of plague at Lake Albert, 1944-1946. Ann. Soc. Belge Méd. Trop. 29: 277-305, 1949.

Devignat, R.
Standardization of epidemiological surveys in plague. Bol. Ofic. Sanit. Panamer. 24: 895-906, 1945.
Trop. Dis. Bull. 43: 647, 1946.

De Villafane Lastra, T.; Goobar, J. K.; and Wolaj, I. F.
Epidemiology of plague in Cordoba, Argentina. 1st. Congr. Nac. Enferm. Endemo-Epidemicas, Buenos Aires. p. 594-596, 1942.
Trop. Dis. Bull. 41: 398, 1944.

De Vogel, W. T.

Time during which *Xenopsylla cheopis*, infected with plague, can transmit infection in climatologic conditions of the island of Java. Bull. Off. Internat. d'Hyg. Publ. 28: 1525-1543, 1936.

* Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der pathogenen Mikroorganismen, by W. Kolle, R. Kraus, and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928. v. 4, p. 179-412.

Ecke, D. H.; Johnson, C. W.; Miles, V. I.; Wilcomb, M. J.; and Irons, J. V.
Plague in Colorado and Texas. Pub. Health Monograph No. 6. U.S. GPO, Washington, 1952. 54p. Abstr.: Pub. Health Repts. 67: 1133-1134, 1952.

Elkington, J. S. C.
A review of recent literature and work on the epidemiology of plague. Commonwealth of Australia Quarantine Service Pub. No. 5. Melbourne, Albert J. Mullett, Govt. Printer, 1915. 32p.
Trop. Dis. Bull. 6: 410, 1915.

Erzin, N.; and Payzin, S.
Plague in Akcakale. Turk. Ijiyen Tecrubu. Biyoloji Dergisi. 7(3): 31-44, 1947.

* Eskey, C. R.
Chief etiologic factors of plague in Ecuador and the antiplague campaign. Pub. Health Repts. 45: 2077-2115; 2162-2187, 1930.

* Eskey, C. R.
Epidemiological study of plague in Peru, with observations on the antiplague campaign and laboratory work. Pub. Health Repts. 41: 2191-2207, 1932.

XV. Epidemiology. Distribution & Incidence. Transmission.

- Eskey, C. R.
Epidemiological study of plague in the Hawaiian Islands. Pub. Health Bull. No. 213, 1934. 70p. Trop. Dis. Bull. 32: 446, 1935.
- Eskey, C. R.; and Haas, V. H.
Plague in the western part of the United States. U.S. Pub. Health Serv. Bull. No. 254. p. 1-83, 1940.
- Esquier, A.
A second epidemic of plague in Dakar. Arch. Méd. et Pharm. Nav. 110: 187-213, 1920.
- Fichet.
Plague in Constantinople, October 1919-January 1920. Arch. Méd. et Pharm. Nav. 112: 165-172, 1921. Trop. Dis. Bull. 17: 390, 1921.
- Foster, V. W.
Epidemic of plague in region of Cajacay, Peru. Bol. Ofic. Sanit. Panamer. 23: 698-699, 1944.
- Fréville.
Epidemiology of plague in Cochin China. Ann. de Med. et Pharm. Colon. 30: 653-679, 1932. Trop. Dis. Bull. 30: 524, 1933.
- Gaisky, N. A.
Epidemiologic and epizootologic problems in bubonic plague due to peculiar vegetation of Cossack country. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 1-9, 1930.
- Gaisky, N.
Problem of mechanism of winter plague epidemics in relation to case of laboratory infection. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 280-290, 1929.
- Gale, G. W.
An outbreak of pneumonic plague in the Kalahari. South Afr. Med. J. 15: 369-373, 1941.
- * Garnham, P. C. C.
Distribution of wild-rodent plague. Bull. World Health Organization. 2: 271-278, 1949.
- Girard, Georges.
Prolongation of incubation periods of primary pneumonic plague in light of existence of healthy carriers of plague bacilli. Bull. Off. Internat. d'Hyg. Pub. 33: 608-611, 1941.
- * Girard, Georges; and Estrade, F.
New biological facts relating to *X. cheopis* and its role in the persistence of endemo-epidemic plague conditions in Emyrna. Bull. Soc. Path. Exot. 27: 456-458, 1934. Trop. Dis. Bull. 31: 879, 1934.
- * Gloster, T. H.; White, F. N.; Mukharji, A. N.; Chaudhuri, J. S. R.; Mitra, C. C.; Mandal, G. C.; and Ram, M.
Epidemiological observations in the United provinces of Agra and Oudh, 1911-1912. J. Hyg. Plague Suppl. 5. p. 793-880, 1917.
- * Gordon, J. E.; and Knies, P. T.
Flea versus rat control in human plague. Amer. J. Med. Sci. 213: 362-376, 1947.
- Goyle, A. N.
Experiments on the transmission of plague by fleas of the genus *Xenopsylla* (*cheopis* and *astia*) with a discussion on the flea species distribution in its relation to the incidence of plague. Indian J. Med. Res. 15: 837-860, 1928. Trop. Dis. Bull. 26: 98, 1929.
- Graham, J. D.
Plague in the British Indies. Bull. Off. Internat. d'Hyg. Pub. 22: 2088-2100, 1930.

XV. Epidemiology. Distribution & Incidence. Transmission.

- * Grasset, E.
Control of plague by means of live avirulent plague vaccine in southern Africa, 1941-1944. Trans. Roy. Soc. Trop. Med. & Hyg. 40: 275-294, 1946.
- * Greenfield, Myrtle.
Plague. Canadian J. Pub. Health. 41: 255-258, 1950.
- * Greenfield, Myrtle.
Three cases of bubonic plague in humans in New Mexico. Canadian J. Pub. Health. 41: 37, 1950.
- * Greenwood, M.
Statistical investigation of plague in the Punjab. Second report: on the connection between proximity to railways and frequency of epidemics. J. Hyg. Plague Suppl. 1. p. 47-61, 1911.
- * Greenwood, M.
Statistical investigation of plague in the Punjab. Third report: on some of the factors which influence the prevalence of plague. J. Hyg. Plague Suppl. 1. p. 62-156, 1911.
- Grenouilleau, G.
Notes on the plague in Algeria. Bull. Off. Internat. d'Hyg. Pub. 37: 432-444, 1946.
Trop. Dis. Bull. 44: 658, 1947.
- * Gross, Bertram; and Bonnet, D. D.
Plague in the territory of Hawaii. I. Present status of plague infection, Island of Hawaii. Pub. Health Repts. 66: 209-214, 1951.
- * Gross, Bertram; and Bonnet, D. D.
Snap traps versus cage traps in plague surveillance. Pub. Health Repts. 64: 1214-1216, 1949.
- * Hampton, B. C.
Plague in the United States. Pub. Health Repts. 55: 1143-1158, 1940.
- * Hampton, B. C.
Plague infection reported in the territory of Hawaii during 1944 and summary of human cases, 1899-1944. Pub. Health Repts. 60: 1365-1368, 1945.
- * Hampton, B. C.
Plague infection reported in the United States during 1944 and summary of human cases, 1900-1944. Pub. Health Repts. 60: 1361-1365, 1945.
- Herivaux, A.; and Toumanoff, C.
Practical significance of the results of studying the "Domestic flea index" in rats during a plague epidemic in Saigon. Bull. Soc. Path. Exot. 41: 318-325, 1948.
Trop. Dis. Bull. 46: 357, 1949.
- Hirst, L. F.
The protection of the interior of Ceylon from plague with special reference to the fumigation of plague-suspect imports. Colombo, Municipal Printing Office, Ceylon, 1931. 52-.
Trop. Dis. Bull. 30: 529-530, 1933.
- Hirst, L. F.
A rat-flea survey of Ceylon with a brief discussion of recent work on rat-flea species distribution in the East Indies. Ceylon J. Sci. Sect. D. 3:(Pt. 1): 49-113, 1933.
Trop. Dis. Bull. 30: 522, 1933.
- Hoekenga, M. T.
Plague in the Americas. J. Trop. Med. & Hyg. 50: 190-201, 1947.

XV. Epidemiology. Distribution & Incidence. Transmission.

- * Hopkins, G. H. E.; and Hennessey, R. S. F.
Cotton and plague in Uganda, with appendix on post-mortem examinations of rats used in experiments.
J. Hyg. 38: 233-247, 1938.
- Human cases of plague in America, year 1951. Estadist. Sanit., Washington. 1: 11-12, 1952.
- Indian Plague Commission.
On the seasonal prevalence of plague in India. J. Hyg., Plague No. 8: 266-301, 1908.
- Institut d'Hygiene du Maroc.
Plague in Morocco, 1941.
Bull. de l'Inst. d'Hyg. Maroc. N.S. 1: 79-131, 1941.
- Isaac Riaz, R.
Epidemiological aspects of plague in Venezuela. Archiv. Venez. de Patol. Trop. y Parasit. Med. 1: 93-110, 1948.
Trop. Dis. Bull. 46: 255, 1949.
- Jorge, Ricardo
Plague in Africa. Bull. Off. Internat. d'Hyg. Pub. v. 27, suppl. to No. 9, Sept., 1935. 67p.
Trop. Dis. Bull. 33: 357, 1936.
- Kamal, A. M.
On the epidemiology of plague in Assiut Province in the years 1938-1939. J. Egyptian Pub. Health Assoc. p. 1-30, 1941.
Trop. Dis. Bull. 4: 566, 1944.
- * Kaul, P. M.
Prevalence of plague in the world in recent years. Epidemiol. & Vital Statistics Rept. 2: 142-165, 1949.
- * Klodnitsky, N. N.
The origin and spread of pneumonic plague. Zent. f. Bakt. Abt. I. 66: 49-59, 1912.
Trop. Dis. Bull. 1: 63-64, 1912.
- Kopstein, Felix.
The geographical distribution of *Xenopsylla astia* in Java and its significance in the epidemiology of plague. Zeitschr. f. Hyg. u. Infektionskr. 114: 289-301, 1932.
Trop. Dis. Bull. 30: 164, 1933.
- * Kunhardt, J. C.; Taylor, J. et al.
Epidemiological observations in Madras Presidency. J. Hyg. Plague Suppl. 4. p. 683-751, 1915.
- Lal, R. B.; and Seal, S. C.
An interim note on certain features of the outbreak of plague in Calcutta during March-May, 1948. Indian Med. Gaz. 83: 145-148, 1948.
Trop. Dis. Bull. 46: 33, 1949.
- League of Nations. Health Organization. Eastern Bureau, Singapore.
Annual report for 1940. Disease incidence. A. Plague, General. B. Plague in countries. C. Plague in sea and air ports. p. 6-37, 1940.
Trop. Dis. Bull. 38: 619, 1941.
- Leger, M.
Role of man in conservation of plague virus. Paris Méd. 1: 552-556, 1926.
- * Link, V. B.
✓ Plague. Amer. J. Trop. Med. 31: 452-457, 1951.
- * Link, V. B.
✓ Plague. J. Amer. Med. Assoc. 144: 375-377, 1950.
- * Link, V. B.
✓ Plague among wild rodents in Rio Arriba County, New Mexico. Amer. J. Trop. Med. 29: 493-500, 1949.
- * Link, V. B.
Plague in North America. Bull. Panamer. Sanit. Bur. 30: 26-29, 1951.

XV. Epidemiology. Distribution & Incidence. Transmission.

- * Link, V. B.
Plague on the high seas. Public Health Repts. 66: 1466-1472, 1951.
- Liston, W. G.
Plague. Trans. 17th Intern. Congr. of Med. Sect. xxi, pt. I. p. 9-23, 1913.
Trop. Dis. Bull. 2: 518, 1913.
- Liston, W. G.
Report of the Bombay bacteriological laboratory for the year 1911. Bombay Govt. Central Press, 1912. 43p.
Trop. Dis. Bull. 1: 59-62, 1912.
- * Lloyd, B. J.
Plague - past, present and future. J. Amer. Med. Assoc. 85: 729-731, 1925.
- Lobo, M. M.; and Silvetti, L. M.
Rural plague. Epidemic and epizootic of 1940 in the province of Tucuman. Semana Med. 48: 262-276, 1941.
- Low, R. B.
Report on the progress and diffusion of plague throughout the world during the two years 1911 and 1912. Forty-second Ann. Rept. of the Local Govt. Board, 1912-1913. Supplement containing report of Medical Officer for 1912-1912. Appendix A, p. 1-88. London, HMSO, 1914.
Trop. Dis. Bull. 4: 13, 1914.
- * Macchiavello, Atilio.
Epidemiology of plague in Ecuador. Amer. J. Pub. Health. 33: 807-811, 1943.
- * Macchiavello, Atilio.
Epidemiology of plague in the Americas. Proc. 4th Internat. Congr. Trop. Med. & Hyg. 1: 240-249, 1948.
- * Macchiavello, Atilio.
Plague control with DDT and "1080". Results achieved in a plague epidemic at Tumbes, Peru, 1945. Amer. J. Pub. Health. 36: 842-854, 1946.
- Macchiavello, Atilio.
Plague in Chile. Bull. Panamer. Sanit. Bur. 9: 909-915, 1932.
Trop. Dis. Bull. 30: 162, 1933.
- Macchiavello, Atilio.
Plague infected fleas in bales of jute bags imported into Peru from India. Bull. Panamer. Sanit. Bur. 26: 225-228, 1947.
- Macchiavello, Atilio.
Studies on bubonic plague in Ecuador, with special reference to the Inter-Andean region. Anal. Soc. Med. Quir. del Guayas. 24: 1094-1153; 1171-1227, 1943.
- Macchiavello, Atilio; Mostajo, B.; and Mostajo, B. Jr.
Plague control in Peru with DDT and "1080". Bol. Ofic. Sanit. Panamer. 25: 1097-1100, 1946.
- * McCoy, G. W.
The problem of plague in the United States. Amer. J. Hyg. 1: 182-191, 1921.
- Mansaud, A.
Meteorological and climatological factors in the etiology of plague. Rev. d'Hyg. et de Police Sanit. No. 11: 1125-1157, 1912.
Trop. Dis. Bull. 1: 319-320, 1913.
- Marras, F. M.
Observations and experiments on bubonic plague in British India. Ann. Med. Nav. Colon. 1: 301-335, 1929.
Biol. Abstr. #20720, 1931.

IV. Epidemiology. Distribution & Incidence. Transmission.

Marshallova, S. D.

World-wide analysis of plague epidemics during years 1934 to 1938. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 411-429, 1940.

Matumoto, M.

Studies on Pasteurella pestis. II. On the relationship between the fermentation reaction of glycerine by the strains of Pasteurella pestis and their geographical distribution. Jap. J. Exper. Med. 20: 285-294, 1949. Biol. Abstr. #1361, 1952. Trop. Dis. Bull. 48: 36, 1951.

* May, J. M.

Map of the world distribution of plague. Geographical Rev. 42: 628-630, 1952.

Metsner, S.

Development and spread of plague in Africa. Deut. Tropenmed. Ztschr. 47: 399-423, 465-478, 1943. Trop. Dis. Bull. 41: 480, 1944.

* Meyer, K. F.

The ecology of plague. Medicine. 21: 143-174, 1942.

* Meyer, K. F.

The known and the unknown in plague. Amer. J. Trop. Med. 22: 9-36, 1942. Trop. Dis. Bull. 39: 548, 1942.

* Meyer, K. F.

Plague. Med. Clin. North Amer. 27: 745-765, 1943.

* Meyer, K. F.

The prevention of plague in the light of newer knowledge. Ann. New York Acad. Sci. 48(6): 429-467, 1946.

Miyara, S.; Conte, D.;

Horenstein, B.; and Corica, P. Rural plague in Mendoza. Rev. Asoc. Med. Argentina. 61: 161-182, 1947. Trop. Dis. Bull. 44: 815, 1947.

* Mohr, Carl O.

Entomological background of the distribution of murine typhus and murine plague in the United States. Amer. J. Trop. Med. 31: 355-372, 1951.

Moll, A. A.; and O'Leary, S. B.

Plague in the Americas. An historical and quasi-epidemiological study. Bull. Panamer. Sanit. Bur. 19: 451-461; 576-584, 1940.

Moll, A. A.; and O'Leary, S. B.

Plague in the Americas. II. Argentina. Bull. Panamer. Sanit. Bur. 19: 859-771, 1940.

Moll, A. A.; and O'Leary, S. B.

Plague in the Americas. III. Bolivia. Bull. Panamer. Sanit. Bur. 19: 878-887, 1940.

Moll, A. A.; and O'Leary, S. B.

Plague in the Americas. V. Chile. Bull. Panamer. Sanit. Bur. 20: 139-149, 1941.

Moll, A. A.; and O'Leary, Shirley.

Plague in the Americas. VI. Ecuador. 20: 365-374, 1941.

Moll, A. A.; and O'Leary, S. B.

Plague in the Americas. VII. Peru. Bull. Panamer. Sanit. Bur. 20: 697-714, 1941.

Moll, A. A.; and O'Leary, S. B.

Plague in the Americas. VIII. Paraguay. Bull. Panamer. Sanit. Bur. 20: 1149-1155, 1941.

XV. Epidemiology. Distribution & Incidence. Transmission.

- Moll, A. A.; and O'Leary, S. B.
Plague in the Americas. IX.
Uruguay. Bull. Panamer. Sanit. Bur.
21: 245-252, 1942.
- Moll, A. A.; and O'Leary, Shirley.
Plague in the Americas. X.
Venezuela. Bull. Panamer. Sanit.
Bur. 21: 780-785, 1942.
- Moll, A. A.; and O'Leary, Shirley.
Plague in the Americas. XI.
Mexico. Bull. Panamer. Sanit. Bur.
21: 874-883, 1942.
- Moll, A. A.; and O'Leary, Shirley.
Plague in the Americas. XII.
The West Indies and certain
European-African islands. Bull.
Panamer. Sanit. Bur.
21: 980-1000, 1942.
- * Murdock, J. R.
Pneumonic plague in Ecuador
during 1939. Pub. Health Repts.
55: 2172-2178, 1940.
- * Ori, Alessandro.
Sterilization of maize infected
with plague bacilli. Ann. d'Ig.
43: 276-287, 1933.
- Otten, L.
The problem of the seasonal
prevalence of plague. J. Hyg.
32: 396-405, 1932.
Trop. Dis. Bull. 29: 673, 1932.
- Otten, L.
The problem of seasonal pre-
valence in plague. Geneesk.
Tijdschr. v. Nederl. Indië.
72: 28-37, 1932.
Trop. Dis. Bull. 29: 327, 1932.
- Otto, R.
Protection against war epidemics
of plague; vaccination. Zeitschr.
f. Arztl. Fortbild. 37: 65-71, 1940.
- Overseas transmission of bubonic
plague. A danger almost eliminated.
Pub. Health Repts. 52: 412-414, 1937.
- * Pardal, Eduardo.
Outbreak of plague in Los Medanitos
and El Medano. Rev. Inst. Bact.
Buenos Aires. 7: 410-418, 1936.
- * Pardal, Eduardo.
Outbreak of pneumonic plague
in Santa Rosa. Rev. Inst. Bact.
Buenos Aires. 6: 643-650, 1935.
- Pardal, Eduardo.
Plague in Canada Grande and in
the province of San Luis Argentina.
Bol. Sanitario Buenos Aires.
5: 335-358, 1941.
- * Petrie, G. F.
Bacillus pestis. In: Great
Britain Medical Research Council,
A system of bacteriology in relation
to medicine. London, HMSO, 1929.
v. 3, p. 137-224.
- Petrie, G. F.
An epidemiological review of the
epidemic of pneumonic plague in
northern China, 1910-1911.
Rept. Internat. Plague Conf., 1911.
Manila, 1912. p. 409-427.
- Petrie, G. F.
Commentary on recent plague in-
vestigations in Transbaikalia and
Southern Russia. J. Hyg.
22: 397-401, 1924.
- Petrie, G. F.; and Todd, R. E.
Plague report. Dept. of public
health, Cairo Egypt. Repts and
notes of the public health
laboratories No. 5. Cairo, Govt.
Press, 1923. 114p.
Trop. Dis. Bull. 21: 875, 1924.

XV. Epidemiology. Distribution & Incidence. Transmission.

- Petrie, G. F.; Todd, R. E.;
Skander, R.; and Hilmy, F.
Report on plague investigations
in Egypt. J. Hyg. 23: 117-150, 1924.
- Philip, W. M.; and Hirst, L. F.
A report on the outbreak of the
plague in Colombo 1914-1915.
J. Hyg. 15: 527-564, 1917.
Trop. Dis. Bull. 10: 278-281, 1917.
- Piquero, A. R.
Epidemiology and prophylaxis
of plague. Rev. Méd., Buenos Aires.
4: 339-345, 1942.
- Plague in Calcutta. Indian Med.
Gaz. 83: 137-143, 1948.
- * Plague in Dakar. Bull. U.S. Army
Med. Dept. No. 87: 13-16, 1945.
- * Plague infection in North Dakota
and Canada. Pub. Health Repts.
56: 1520-1521, 1941.
- * Plague infection reported in the
United States during 1942 in human
beings. Pub. Health Repts.
58: 640-645, 1943.
- Plague outbreak in western Unnan,
China. Epidemiological Informa.
Bull. UNRRA. 1(4): 169-170, 1945.
- Plum, D.
The plague epidemic in Nairobi
with special reference to place,
incidence, and treatment. East
African Med. J. 19: 3-9, 1942.
- Pollitzer, R.
Plague studies. I. A summary
of the history and a survey of the
present distribution of the disease.
Bull. World Health Organization.
4: 475-533, 1951.
- Pollitzer, R.
Plague studies. 9. Epidemiology.
Bull. World Health Organization.
9: 131-170, 1953.
- Pollitzer, R.; and Li, C. C.
Some observations on the decline
of pneumonic plague epidemics.
Chinese Med. J. 62A: 52-55, 1944.
- * Pollitzer, R.; and Li, C. C.
Some observations on the decline
of pneumonic plague epidemics.
J. Infec. Dis. 72: 160-162, 1934.
- Pooled-flea inoculations reveal
plague-infected areas in California.
Pub. Health Repts. 51: 844-845, 1936.
- Rao, S. R.
Some observations on plague in
Calcutta. Calcutta Med. J.
36: 89-105, 1939.
- Ray, Mahabir.
Plague epidemic in Calcutta.
Sci. & Culture. 14: 417-418, 1949.
Biol. Abstr. #29659, 1949.
- Riaz, I.
Epidemiological aspects of plague
in Venezuela. Arch. Venezolanas
Patol. Trop. y Parasitol. Med.
1: 93-100, 1948.
- Roberts, J. I.
An experiment in hydrocyanic acid
gas fumigation as a control measure
against plague. J. Trop. Med. &
Hyg. 53: 175-180, 1950.
- Rotman, S. M. H.
Bubonic plague in Dakar.
J. Roy. Nav. Med. Serv. 31: 155-158,
1945.
- Russell, A. J. H.
Plague in India. Far Eastern
Assoc. Trop. Med. Trans. 9th Congr.
2: 725-733, 1934.
Trop. Dis. Bull. 32: 841, 1935.

XV. Epidemiology. Distribution & Incidence. Transmission.

- Saenz Vera, C.
Bubonic plague in Ecuador in the year 1948. Bol. Ofic. Sanit. Panamer. 28: 906-909, 1949.
- Saenz Vera, C.
Intensive anti-plague measures in Chimborazo, Ecuador. Bol. Ofic. Sanit. Panamer. 22: 873-882, 1943.
- * Savino, Enrico.
Rural plague in the department of Leventue, Territory of La Pampa. Rev. Inst. Bact. Buenos Aires. 7: 141-150, 1935.
- * Savino, Enrico.
Three outbreaks of plague in the province of Salta, Jujuy and San Luis. Rev. Inst. Bact. Buenos Aires. 6: 99-129, 1934.
- * Savino, Enrico; and Goobar, J. K.
Rural plague in Rio Seco, Argentina. Rev. Inst. Bact. Buenos Aires. 12: 287-292, 1944.
- * Scholz, Fritz.
On plague and its prophylaxis. Zent. f. Bakt. Abt. I. 64: 44-52, 1912.
- Schonbauer, L.
Plague in Vienna. Klin. Med. 4: 198, 1949.
- * Schulz, K. H.
Control of plague in Toronto, Italy, 1945-1946. Bull. World Health Organization. 2: 675-685, 1950.
- Seal, S. C.
Pneumonic plague cases in Calcutta and Gaya. Indian Med. Gaz. 84: 162-170, 1949.
Trop. Dis. Bull. 46: 934, 1949.
- * Sharif, M.
Spread of plague in the southern and central divisions of Bombay Province and plague endemic centers in the Indo-Pakistan subcontinent. Bull. World Health Organization. 4: 75-109, 1951.
- Shevade, C. V.
A short note on the practical measures against plague. Antiseptic. 42: 688-692, 1945.
- Shih, F. I.; Chang, S. S.; and Yuan, K. L.
A report on some simple measures for the control of a rural plague outbreak. Chinese Med. J. 62A: 56-60, 1944.
- Shih, F.; and Pollitzer, R.
Some observations on the relation between rodent and human plague. Chinese Med. J. 62A(2): 45-51, 1944.
Trop. Dis. Bull. 42: 725, 1945.
- Silva, Marcello.
Epidemiological aspects of plague in the northeast. Rev. Assoc. Paul. Med. 13: 1-28, 1938.
- Silva, Marcello.
Final conclusions after three years of study of plague in the northeast. Bol. Hig. Saude Pub. Rio. 1(2): 1-25, 1943.
- * Sokhey, S. S.; Chitre, G. D.; and Gokhale, S. K.
The relative value of some proprietary cyanide preparations for the extermination of rats and fleas as a plague preventive measure. Indian J. Med. Res. 27: 389-407, 1939.

XV. Epidemiology. Distribution & Incidence. Transmission.

Strickland, C.

An analysis of seven years epidemics of plague involving 2, 520 infected villages in the Belgium and Harwar districts, Bombay presidency. Indian J. Med. Res. 21: 29-65, 1933.
Trop. Dis. Bull. 31: 30, 1934.

- * Strong, R. P.; and Teague, Oscar.
Studies on pneumonic plague and plague immunization. II. The method of transmission of the infection in pneumonic plague and manner of spread of the disease during the epidemic. Philippine J. Sci. 7B: 137-156, 1912.

- * Swellengrebel, N. H.
Plague in Java, 1910-1912. J. Hyg. 48: 135-145, 1950.

- * Teague, Oscar.
A further note upon the influence of atmospheric temperature upon the spread of pneumonic plague. Philippine J. Sci. 8B: 241-252, 1913.

- * Teague, Oscar; and Barber, M. A.
Studies on pneumonic plague and plague immunization. III. Influence of atmospheric temperature upon the spread of pneumonic plague. Philippine J. Sci. 7B: 157-172, 1912.

- * Tieh, T. H.; Landauer, E.; Miyagawa, F.; Kobayashi, G.; and Okayasu, G.
Primary pneumonic plague in Mukden, 1946, and report of 39 cases with 3 recoveries. J. Infec. Dis. 82: 52-58, 1948.

Todd, P. J.
A study of plague. China Med. J. 27: 10-20; 158-167, 1913.
Trop. Dis. Bull. 2: 271, 1913.

Toullec.

✓ Modes of plague transmission. Marseille Méd. 1: 249-267, 1931.

Townsend, S. L.

Plague (bubonic and pneumonic) in Post Said. J. Roy. Naval Med. Serv. 30: 25-29, 1944.
Biol. Abstr. #1252, 1945.
Trop. Dis. Bull. 41: 480, 1944.

Trufant, S. A.

✓ Sylvatic plague: probable origin in United States, distribution, potentialities as reservoir for infections in man. Nre Orleans Med. & Surg. J. 96: 184-195, 1943.

- * Uriarte, Leopoldo; Argerich, Ricardo; and Passalacqua, Ricardo.
An epidemic of pneumonic plague in 1913. Rev. Inst. Bact. Buenos Aires. 6: 651-660, 1935.

- * Uriarte, Leopoldo; and Canal Feijo, E. J.
Pneumonic plague in some places in the province of Santiago del Estero. Rev. Inst. Bact. Buenos Aires. 7: 42-52, 1935.

- * Uriarte, Leopoldo; Villazon, N. M.; and Anchezar, B.
Pneumonic plague in Frias, 1934. Rev. Inst. Bact. Buenos Aires. 7: 705-719, 1936.

- * Uriarte, Leopoldo; Villazon, N. M.; Crescentino, H.; and Anchezar, B.
Presence of plague in cities of western Argentina. Rev. Inst. Bact. Buenos Aires. 7: 549-567, 1936.

Vincke, I.; and Devignat, R.
Lake Albert. A plague focus. Ann. Soc. Belge de Méd. Trop. 17: 87-110, 1937.
Trop. Dis. Bull. 34: 788, 1937.

XV. Epidemiology. Distribution & Incidence. Transmission.

- * Wayson, N. E.
Plague-field surveys in western United States during ten years (1936-1945). Pub. Health Repts. 62: 780-791, 1947.
- Wayson, N. E.
Symposium on tropical medicine; plague, discussion of its trend in the U.S. Clinics. 2: 868-874, 1943.
- * Witlin, Bernard; and Wilbar, C.
Effect of penicillin on experimentally produced plague in guinea pigs. J. Lab. Clin. Med. 30: 237-243, 1945.
- World distribution of cholera, plague, smallpox, typhus and yellow fever. Pub. Health Repts. 65: 1269-1274, 1950.
- * Wu, C. Y.
Problem of ship-borne plague. In: plague, a manual for medical and public health workers, by Lien Teh Wu, et al. Shanghai, National Quarantine Service, 1936. Chap. 12, p. 485-512.
- * Wu, Lien Teh
Epidemiological factors. In: Plague, a manual for medical and public health workers, by Lien Teh Wu et al. Shanghai, National Quarantine Service, 1936. Chap. 10, p. 383-423.
- Wu, Lien Teh
First report of the North Manchurian plague prevention service. J. Hyg. 13: 237-290, 1913. Trop. Dis. Bull. 3: 202, 1914.
- Wu, Lien Teh
Pestilence and plague in China. Far Eastern Assoc. Trop. Med. Trans. 9th Congress. 2: 735-759, 1934. Trop. Dis. Bull. 32: 841-842, 1935.
- * Yang, Y. N.; Landsauer, E.; Koo, C. K.; and Lin, P. C.
Plague work in Fukien, China. Chin. Med. J. 55: 55-73; 162-173; 262-275; 382-390; 479-487, 1939.

BIBLIOGRAPHY ON PASTEURILLA PESTIS AND PLAGUE.

XVI. EPIDEMIOLOGY. ANIMAL HOSTS. EPIZOOTICS.

- The Advisory Committee for Plague Investigation in India.
Experimental plague epidemics among rats. J. Hyg. Plague Suppl. No. 2. p. 292-299, 1912.
Trop. Dis. Bull. 1: 541, 1913.
- * The Advisory Committee for Plague Investigation in India.
The experimental production of plague epidemics among animals. J. Hyg. 10(Plague No.): 315-334, 1910.
- The Advisory Committee for Plague Investigation in India.
The experimental production of resolving plague and post-plague lesions in rats. J. Hyg. Plague Suppl. 2. p. 287-291, 1912.
Trop. Dis. Bull. 1: 540, 1913.
- The Advisory Committee for Plague Investigation in India.
The immunity of the wild rat in India. J. Hyg. Plague Suppl. 2. p. 229-265, 1912.
Trop. Dis. Bull. 1: 538, 1913.
- * The Advisory Committee for Plague Investigation in India.
Observations on plague in Eastern Bengal and Assam. J. Hyg. Plague Suppl. 1. p. 157-192, 1911.
- * The Advisory Committee for Plague Investigation in India.
Observations on rat and human plague in Belgaum. J. Hyg. 10(Plague No.): 446-482, 1910.
- * The Advisory Committee for Plague Investigation in India.
Observations on rat and human plague in Poona. J. Hyg. 10(Plague No.): 483-535, 1910.
- Araujo.
Cats and bubonic plague. Hospital, Rio. 12: 769-773, 1937.
- Araujo.
Vultures and bubonic plague. Bahia Méd. p. 155-158, 1937.
- * Aristarkhova, O.
Observations on endemic plague in Russia. Bull. Soc. Path. Exot. 23: 901-904, 1930.
- * Baltazard, M.; Bahmanyar, M.; Mofidi, C.; and Seydian, B.
The Kurdistan plague focus. Bull. World Health Organization. 5: 441-472, 1952.
- * Baltazard, M.; Seydian, B.; Mofidi, C.; Bahmanyar, M.; and Pournaki, R.
The resistance of certain species of wild rodents to plague; observations made in nature. Ann. Inst. Pasteur. 85: 411-442, 1953.
- * Barnett, S. A.
Carriage of plague by common brown rat (*Rattus norvegicus*). Nature. 157: 105, 1946.
- Berlin, A. L.
Significance of thermoprecipitation reaction in investigation of plague epizootics. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 54-59, 1930.
Biol. Abstr. #16472, 1932.

XVI. Epidemiology. Animal Hosts. Epizootics.

- Buck, G.; Courdurier, J.; and Quesnel, J. J.
Natural plague infection in guinea pigs and domestic rabbits. Bull. Soc. Path. Exot. 45: 425-426, 1952.
- Buxton, P. A.
✓ Experiments with mice and fleas. I. The baby mouse. Parasitology. 39: 119-124, 1948.
Trop. Dis. Bull. 46: 31, 1949.
- * Byington, L. B.
✓ Two epizootics of plague infection in wild rodents in the western United States in 1938. Pub. Health Repts. 55: 1496-1501, 1940.
- Carlé, R.
The ecological complex which determines the chain of infection in tularemia, plague, malaria and sandfly fever in South Russia. Zeitschr. f. Tropenmed. u. Parazitol. 2: 558-602, 1951.
Bull. Hyg. 26: 1085, 1951.
- * Creel, R. H.
The migratory habits of rats with special reference to the spread of plague. Pub. Health Repts. 30: 1679-1685, 1915.
- * Creel, R. H.
The rat. Its habits and their relation to antiplague measures. Pub. Health Repts. 28: 382-386, 1913.
- * Davis, D. H. S.
Ecological studies of rodents in relation to plague control. Proc. 4th Internat. Congr. Trop. Med. & Malaria. 1: 250-256, 1948.
- Davis, D. H. S.
A plague survey of Ngamiland, Bechuanaland, Protectorate, during the epidemic of 1944-1945. South African Med. J. 20: 462-467, 511-515, 1946.
Trop. Dis. Bull. 44: 76, 1947.
- * Davis, D. H. S.
Sylvatic plague in South Africa: history of plague in man, 1919-1943. Ann. Trop. Med. & Parasitol. 42: 207-217, 1948.
Trop. Dis. Bull. 46: 31, 1949.
- * De La Barrera, J. M.
Rural plague. Rev. Inst. Bact. Buenos Aires. 7: 439-506, 1936.
- De La Barrera, J. M.
Rural plague in the Argentine republic. Bol. Sanitario, Buenos Aires. 1: 452-587, 1937.
Trop. Dis. Bull. 35: 211, 1938.
- * De La Barrera, J. M.
Studies on sylvatic plague outbreak in Mendoza. Rev. Inst. Bact. Buenos Aires. 9: 565-586, 1940.
- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der pathogenen Mikroorganismen, by W. Kollé, R. Kraus; and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.
- Di Mattei, E.
Anatomical evidence of murine plague infection as a contribution to the diagnosis and epidemiology of plague. Ann. d'Igiene. 34: 781-795, 1924.
Trop. Dis. Bull. 22: 381-382, 1925.
- Dobradin, P. M.; and Skorodumov, A.
Collected works of the anti-plague organization of the eastern Siberian region for 1929-1931. Trans. East Siberian region Inst. Microbiol. & Epidemiol. v. 1, 120p. 1933.
Trop. Dis. Bull. 32: 451, 1935.
- Donatien, A.; and Gayot, G.
Plague in pigs and guinea pigs. Arch. Inst. Pasteur Alger. 29: 11-14, 1951.

IVI. Epidemiology. Animal Hosts. Epizootics.

- Dujardin-Beaumetz, E.; and Mosny, E.
Evolution of plague in the
marmot during hibernation. Compt.
Rend. Acad. Sci. 155: 329-332, 1912.
Trop. Dis. Bull. 1: 68, 1912.
- * Merson, Frederick; and
✓ Wu, Lien Teh
Transmission of pneumonic and
septicemic plague among marmots.
J. Infec. Dis. 20: 170-179, 1917.
- Egorov, A.
The role of raptorial birds in
the epidemiology of plague. Vest.
Mikrobiol. Epidemiol. i Parazitol.
12: 133-134, 1933.
Trop. Dis. Bull. 31: 305, 1934.
- * Eskey, C. R.
Chief etiological factors of
plague in Ecuador and the anti-
plague campaign. Pub. Health
Repts. 45: 2077-2115; 2162-2187,
1930.
- * Eskey, C. R.
Epidemiological study of plague
in Peru, with observations on the
anti-plague campaign and laboratory
work. Pub. Health Repts.
47: 2191-2207, 1932.
- Eskey, C. R.
Epidemiological study of plague
in the Hawaiian Islands. Pub.
Health Bull. No. 213, 1934. 70p.
Trop. Dis. Bull. 32: 446, 1935.
- * Evans, F. C.; and Holdenried, R.
Field study of ground squirrel
(Citellus beechyi) in relation to
sylvatic plague. Proc. Soc. Exper.
Biol. Med. 47: 63, 1941.
- * Evans, F. C.; Wheeler, C. M.; and
Douglas, J. R.
Sylvatic plague studies. III.
An epizootic of plague among ground
squirrels in Kern County, Calif.
J. Infec. Dis. 72: 68-76, 1943.
- Fourie, L.
The endemic focus of plague.
South African Med. J.
12: 352-357, 1938.
Trop. Dis. Bull. 35: 751, 1938.
- Gaisky, N. A.
Epidemiologic and epizootologic
problems in bubonic plague due to
peculiar vegetation of Cossack
country. Vest. Mikrobiol.
Epidemiol. i Parazitol. 9: 1-9,
1930.
- Gaisky, N. A.
✓ Experimental plague infection of
hibernating marmots. Russk. Vrach.
14: 857-859, 1915.
- Gaisky, N. A.
A new carrier of plague, Ellobius
talpinus. Vest. Mikrobiol. Epidemiol.
i Parazitol. 10: 59-61, 1931.
Trop. Dis. Bull. 28: 877, 1931.
- Gaisky, N. A.
Plague in susliks in relation to
season. Vest. Mikrobiol. Epidemiol.
i Parazitol. 5: 3-19, 1927.
Trop. Dis. Bull. 24: 32, 1927.
- Gaisky, N. A.
Spontaneous plague in marmots.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 8: 148-157, 1929.
Biol. Abstr. #14476, 1931.
- Gaisky, N. A.
The vitality of plague bacilli
on stored suslik skins. Vest.
Mikrobiol. Epidemiol. i Parazitol.
4: 15-17, 1925.
Trop. Dis. Bull. 23: 618, 1926.
- Galler, O.
Experimental plague infection
in cats. Vest. Mikrobiol. Epidemiol.
i Parazitol. 9: 139-154, 1930.

XVI. Epidemiology. Animal Hosts. Epizootics.

- * Garnham, P. C. G.
Distribution of wild-rodent plague. Bull. World Health Organization. 2: 271-275, 1949.
- Gilmore, C. C. B.
Bubonic plague, rats and fleas in Singapore. Malayan Med. J. 9: 177-181, 1934.
Trop. Dis. Bull. 32: 450, 1935.
- Girard, Georges.
Epidemiology and prophylaxis of plague in the high plateaus of Madagascar. Rev. d. Hyg. Méd. Préventive. 59: 543-554, 1937.
Trop. Dis. Bull. 35: 207, 1938.
- Grikurov, V. S.
Agglutinating properties of serum of Siberian marmots in enzootic plague areas. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 47-79, 1934.
- Grikurov, V. S.
The preservation of the plague virus in an endemic area during the inter-epizootic period. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 207-211, 1934.
Trop. Dis. Bull. 32: 450, 1935.
- * Harrison, J. L.
Rat vectors of plague. Nature. 157: 483-484, 1946.
- Hecht, O.
Entomological notes on the epidemiology of bubonic plague in rodents in Venezuela. Rev. Sanidad Asis. Soc. 8: 1159-1162, 1943.
Trop. Dis. Bull. 42: 281, 1945.
- Hecht, O.
Entomology of rodent plague of Venezuela. Rev. Sanidad y Asis Soc. 8: 1159-1162, 1943.
Trop. Dis. Bull. 41: 1034, 1944.
- * Heisch, R. B.
Wild-rodent plague in Kenya. Trans. Roy. Soc. Trop. Med. Hyg. 46: 547-549, 1952.
- Henriques, Athos.
Plague and the domestic cat. Bull. Panamer. Sanit. Bur. 22: 423-424, 1943.
- Holdenried, R.
Western CDC Laboratory reorients its wild rodent plague investigations. CDC Bull. 10: 1-2, 1951.
- * Humphreys, F. A.; Campbell, A. G.; and Smith, E. S.
Plague infection in Western Canada. Information gleaned from rodent surveys, 1938-1950. Canad. J. Pub. Health. 42: 68, 1951.
- * Humphreys, F. A.; Campbell, A. G.; and Smith, E. S.
Plague infection in Western Canada. Information gleaned from rodent surveys. Canadian J. Pub. Health. 42: 437-438, 1951.
- * Hundley, J. M.; and Nasi, K. W.
Anti-plague measures in Tacoma, Washington. Pub. Health Repts. 59: 1239-1255, 1944.
- Ingram, A.; and Pirie, J. H. H.
Report on bacteriological research work carried out in connection with plague during 1925. South African Med. Rec. 24: 252-257, 1926.
Trop. Dis. Bull. 24: 37, 1927.
- * Jellison, W. L.
Sylvatic plague: studies of predatory and scavenger birds in relation to its epidemiology. Pub. Health Repts. 54: 792-798, 1939.
- Jorge, Ricardo
Plague in Africa. Bull. Off. Internat. d'Hyg. Pub. v. 27, suppl. to No. 9, Sept. 1935. 67p.
Trop. Dis. Bull. 33: 357, 1936.

Kalabukhov, N. I.

Dispersal of the ground squirrel (*Citellus pygmaeus* Pall.) as a cause of plague epizootic. Ber. Mikrobiol. Staatsinst. Rostow. 9: 1-7, 1929.

Kalabukhov, N.; and Raevskii, V.

The life cycle of the ground squirrel (*Citellus pygmaeus* Pall.) and the laws of development of the plague epizootic. IV. Ecological peculiarities of the ground squirrel at the different periods of its yearly life cycle. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 109-129, 1936.

Trop. Dis. Bull. 33: 872, 1936.

Kalabukhov, N.; and Raevskii, V.

The study of migrations of ground squirrels in the steppe areas of Northern Caucasus by means of the banding method. Problems of ecology and biocenology. 2: 170-195, 1935.

Kamal, A. M.; and

Gamal el Din el Hefny, A.

Rats in Egypt and the effect of local squill (*Urgina-Scilla-Maritima*). J. Egyptian Pub. Health Assoc. Jan: 105-129, 1941.

Trop. Dis. Bull. 41: 566, 1944.

* Kellogg, W. H.

Rodent plague in California.

J. Amer. Med. Assoc. 105: 856-859, 1935.

* Kerandel, J.

Insectivore reservoir of the virus of plague in Cambodia. Bull. Soc. Path. Exot. 8: 54-57, 1915.

Trop. Dis. Bull. 5: 394, 1915.

Kopstein, Felix.

The biology of the house shrew (*Pachyura murina* L.) and its significance for the epidemiology of bubonic plague in Java. Geneesk. Tijdschr. f. Nederl.-Indië. 72: 1337-1349, 1932.

Trop. Dis. Bull. 30: 165, 1933.

Kopstein, Felix.

Rat density as a factor in the epidemiology of bubonic plague. Geneesk. Tijdschr. f. Nederl.-Indië. 72: 960-968, 1932.

Trop. Dis. Bull. 30: 164, 1933.

* Kunhardt, J. C.; Taylor, J.; et al.

Epidemiological observations in Madras Presidency. J. Hyg. Plague Suppl. 4. p. 683-751, 1915.

Trop. Dis. Bull. 5: 389-390, 1915.

* Kurauchi, K.

The rodents of inner Mongolia. Plague studies. II. Kitasato Arch. Exper. Med. 8: 39-44, 1931.

Kuznetsova, V. I.; and

Dobrokhotova, N. D.

Diagnosis of plague in squirrels by means of Bordet-Gengou reaction. Vest. Mikrobiol. Epidemiol. i Parazitol. 17: 88-91, 1939.

* Lehnun, W. H.

Mammals and plague distribution in the United States. U.S. Naval Med. Bull. 46: 782-785, 1946.

Lal, R. B.; and Seal, S. C.

An interim note on certain features of the outbreak of plague in Calcutta during March-May, 1948. Indian Med. Gaz. 83: 145-148, 1948.

Trop. Dis. Bull. 46: 33, 1949.

* Link, V. B.

Plague. Amer. J. Trop. Med. 31: 452-457, 1951.

* Link, V. B.

Plague among wild rodents in Rio Arriba County, New Mexico. Amer. J. Trop. Med. 29: 493-500, 1949.

* Link, V. B.

Plague epizootic in cotton-tail rabbits. Pub. Health Repts. 65: 696, 1950.

XVI. Epidemiology. Animal Hosts. Epizootics.

- * Link, V. B.
Plague on the high seas. Pub. Health Repts. 66: 1466-1472, 1951.
- Lobo, M. M.; and Silvetti, L. M.
Rural plague. Epidemic and epizootic of 1940 in the province of Tucuman. Semana Méd. 48: 262-276, 1941.
- Macchiavello, Atilio.
A focus of sylvatic plague on the Peruvian Ecuadorian frontier. Science. 104: 522, 1946.
- Macchiavello, Atilio.
Investigations on plague in north-east Brazil. Bull. Panamer. Sanit. Bur. 20: 441-462, 1941. Trop. Dis. Bull. 38: 624, 1941.
- Macchiavello, Atilio.
Plague in Chile. Bull. Panamer. Sanit. Bur. 9: 909-915, 1932. Trop. Dis. Bull. 30: 162, 1933.
- * Macchiavello, Atilio
Some special epidemiological and clinical features of plague in northeastern Brazil. Pub. Health Repts. 56: 1657-1661, 1941.
- Magrou, E.; and Brissou, J.
An epizootic of plague in a guinea pig colony. Bull. Soc. Path. Exot. 39: 119-121, 1946. Biol. Abstr. #28626, 1952. Trop. Dis. Bull. 43: 926, 1946.
- Marras, F. M.
Observations and experiments on bubonic plague in British India. Ann. Med. Navale e Coloniale. 1: 301-335, 1929. Biol. Abstr. #20720, 1931.
- * Meyer, K. F.
The ecology of plague. Medicine. 21: 143-174, 1942.
- * Meyer, K. F.
The known and the unknown in plague. Amer. J. Trop. Med. 22: 9-36, 1942. Trop. Dis. Bull. 39: 548, 1942.
- * Meyer, K. F.
The prevention of plague in the light of newer knowledge. Ann. New York Acad. Sci. 48: 429-467, 1946.
- * Meyer, K. F.
Sylvatic plague. Amer. J. Pub. Health. 28: 1153-1164, 1938.
- * Meyer, K. F.
Sylvatic plague. Amer. J. Pub. Health. 29: 1225-1230, 1939.
- * Meyer, K. F.
The sylvatic plague committee. Amer. J. Pub. Health. 26: 961-969, 1936.
- * Meyer, K. F.
The sylvatic plague committee. Amer. J. Pub. Health. 27: 777-785, 1937.
- * Meyer, K. F.; and Holdenried, R.
Rodents and fleas in a plague epizootic in a rural area of California. Puerto Rico J. Pub. Health. 24: 201-209, 1949.
- * Meyer, K. F.; Holdenried, R.; Burroughs, A. L.; and Jawetz, E.
Sylvatic plague studies. IV. Inapparent, latent sylvatic plague in ground squirrels in Central California. J. Infec. Dis. 73: 144-157, 1943.
- * Mohr, Carl O.
Entomological background of the distribution of murine typhus and murine plague in the United States. Amer. J. Trop. Med. 31: 355-372, 1951.

XVI. Epidemiology. Animal Hosts. Epizootics.

Nikanorov, S. M.

Plague in the south east Union of Soviet Socialist Republics. Rodents and fleas in the conservation of plague. Bull. Internat. d'Hyg. Pub. 20: 537-564, 1928.

Nikanorov, S. M.

The role of Citellus (Spermophilus) migozaricus as carrier and transmitter of plague infection to man. Vest. Mikrobiol. Epidemiol. i Parazitol. 4: 85-89, 1925. Trop. Dis. Bull. 23: 184, 1926.

Nikanorov, S.; and Knizaevsky, A.

Carrier of plague in Turkestan and the Transcaspian region. Vest. Mikrobiol. i Epidemiol. 6: 154-159, 1927. Trop. Dis. Bull. 24: 936, 1927.

Office International d'Hygiene Publique.

Regional fauna of rats and fleas in their relationship to plague. Result of the permanent committee of the International Office of Public Health, 1924-1927. Maris, Masson et Cie, 1928. 306p. Trop. Dis. Bull. 26: 95-98, 1929.

Otten, L.

The role of the field-rat in the epidemiology of plague. Geneesk. Tijdschr. f. Nederl-Indië. 56: 789-862, 1916. Trop. Dis. Bull. 9: 477, 1917.

* Plague found in prairie dogs. Pub. Health Repts. 51: 1279-1280, 1936.

* Petrie, G. F.

Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.

Petrie, G. F.; and Todd, R. E.

Plague report. Dept. of Public Health, Cairo Egypt. Reports and notes of the public health laboratories. No. 5. Cairo, Govt. Press, 1923. 114p. Trop. Dis. Bull. 21: 875, 1924.

Philip, W. M.; and Hirst, L. F.

A report on the outbreak of the plague in Colombo 1914-1915. J. Hyg. 15: 527-564, 1917. Trop. Dis. Bull. 10: 278-281, 1917.

* Plague infection discovered in fleas and lice taken from marmots in Montana and in a marmot in Utah. Pub. Health Repts. 51: 1159-1160, 1936.

Plague infection reported in the United States during 1941 in human beings. Pub. Health Repts. 57: 903-905, 1942.

* Plague infection reported in the United States during 1943. Pub. Health Repts. 59: 911-915, 1944.

* Plague infection reported in the United States in 1945. Pub. Health Repts. 62: 431-433, 1947.

* Plague infection reported in the United States in 1946. Pub. Health Repts. 62: 1336-1340, 1947.

* Pollitzer, R.

Plague studies. 6. Hosts of the infection. Bull. World Health Organization. 6: 381-466, 1952.

* Pollitzer, R.

Plague studies. 10. Control and prevention. Bull. World Health Organization. 9: 457-552, 1953.

Ball, I. M.

Endemicity of plague in rodents from the ecological and geographical viewpoint. Zoologicheskii Zhur. 23: 258-266, 1944. Biol. Abstr. #3189, 1946.

Ball, Y. M.; Felgontova, A. A.; and
Sheikina, M. V.

Notes on the biology of the little
ground squirrel in plague endemic
and plague-free areas of West
Kazakhstan. Rev. Microbiol.
Epidemiol. i Parazitol.
12: 139-150, 1929.

Rao, S. R.

Role of field rats in the endemi-
city of plague in H.E.H. and Nizam's
dominions. Indian Med. Gaz.
82: 96-99, 1947.
Excerpta Med. IV. #2629, 1948.

Rao, S. R.

Studies in epidemiology of plague
in H.E.H. the Nizam's Dominions:
comparison of certain factors in
plague infected place with that of
neighboring plague-free area.
Indian Med. Gaz. 75: 8086, 1940.

Raybaud, A.

The role of the cat in plague.
Marseille-Méd. 73: 713-718, 1937.
Trop. Dis. Bull. 34: 789, 1937.

Research on the epizootology of
plague among ground squirrels
(Citellus pygmaeus Pall.) in an
endemic focus. Results of the work
of the Northern Caucasus anti-plague
organization, 1926-1935. Vest.
Mikrobiol. Epidemiol. i Parazitol.
13: 219-222, 1934.

* Roberts, J. I.

Rat and flea conditions in a
rural endemic plague area in Kenya.
J. Hyg. 39: 355-360, 1939.

* Roberts, J. I.

The relationship of field rodents
to plague in Kenya. J. Hyg.
39: 334-344, 1939.

Roberts, J. I.

The relationship of the cotton
crop to plague, and its role as a
vehicle for rats and fleas in East
Africa. J. Hyg. 35: 388-403, 1935.
Trop. Dis. Bull. 33: 359, 1936.

* Roberts, J. I.

The transmission of plague in
Kenya. J. Trop. Med. & Hyg.
53: 80-87, 1950.

Robic, J.

Plague in Madagascar. Ann. Méd.
Pharm. Colon. 35: 305-358, 1937.
Trop. Dis. Bull. 35: 208, 1938.

Rode, P.

Mammalian vectors of plague.
Determination of some species.
Ann. Méd. Pharm. Colon.
32: 263-272, 1934.
Trop. Dis. Bull. 31: 877, 1934.

Roy, D. N.

A note on fleas and rats with
reference to plague in Calcutta.
Indian Med. Gaz. 83: 149-150, 1948.
Trop. Dis. Bull. 46: 34, 1949.

Rudnev, S. P.

The life cycle of the ground
squirrel (Citellus pygmaeus Pall.)
and the laws of development of the
plague epizootic. II. Changes in
the leucocyte picture of the ground
squirrel blood in the course of
their life cycle. Vest. Mikrobiol.
Epidemiol. i Parazitol.
13: 291-297, 1934.
Trop. Dis. Bull. 32: 849, 1935.

Sacquépée; and Garcin.

Plague in Ouled Fredj, Morocco.
Plague of domestic animals. The
spread of plague and its prophylaxis.
Arch. Méd. Pharm. Milit.
62: 561-579, 1913.
Trop. Dis. Bull. 3: 203, 1914.

- * Savino, E.; and Goobar, J. K.
Rural plague in department of Rio Seco; *Gromys griseoflavus centralis* as depository of virus; finding of spontaneous plague in wild rodents and in domestic cat. Rev. Inst. Bact. Buenos Aires. 12: 287-292, 1944.
- Savino, Enrico; and Goobar, J. K.
Rural plague in Rio Seco; *Gravomys griseoflavus* as reservoir and the discovery of plague in field rodents and cats. Bol. Sanitario, Buenos Aires. 7: 193-200, 1943.
Trop. Dis. Bull. 42: 33, 1945.
- * Schoebl, Otto
Bacteriological observations made during the outbreak of plague in Manila in 1912. Philippine J. Sci. 8B: 409-428, 1913.
- * Schultz, K. H.
Notes on wild-rodent plague in South Africa. J. Trop. Med. Hyg. 54: 249-255, 1951.
- * Schurupoff, J. S.
The susceptibility of the spermophile to bubonic plague. Zent. f. Bakt. Abt. I. 65: 243-256, 1912.
- Seal, S. C.
Epidemiology of plague with reference to the present Calcutta outbreak. Calcutta Med. J. 46: 167-178; 218-234, 1949.
- Silva, Marcello
Pasteurella pestis in rodents and other animals. Plague and tularemia. Folha Med. 23: 4-11, 1942.
Trop. Dis. Bull. 39: 687, 1942.
- Simon, R.
A study of the susceptibility to plague of the rodents of the neotropical region. Monografias do Servico Nacional de Pests, 3. Rio de Janeiro, 1951. 69p.
Trop. Dis. Bull. 49: 140, 1952.
- Skorodumov, A. M.
Spontaneous plague of *M. brandti* and *M. raddai* in Transbaikalia. Hyg. et Epidemiol. No. 8: 59-62, 1929.
Biol. Abstr. #8747, 1933.
- Sokhey, S. S.; and Chitre, G. D.
Immunity of wild rats of India against plague. Bull. Off. Internat. d'Hyg. Pub. 29: 2093-2096, 1937.
Trop. Dis. Bull. 35: 204, 1938.
- * Spencer, R. R.
Natural immunity of wild rats to plague. Pub. Health Repts. 36: 2836-2837, 1921.
- * Stewart, M. A.; and Evans, F. C.
A comparative study of rodent and burrow flea populations. Proc. Soc. Exper. Biol. Med. 47: 140-142, 1941.
- * Strong, R. P.; and Teague, Oscar.
Studies on pneumonic plague and plague immunization. VIII. Susceptibility of animals to pneumonic plague. Philippine J. Sci. 7B: 223-228, 1912.
- Swellengrebel, N. H.
Enquiry concerning plague infection of rats apart from their fleas. Geneesk. Tijdschr. v. Nederl.-Indië. 55: 359-384, 1915.
Trop. Dis. Bull. 7: 177, 1916.
- Swellengrebel, N. H.
Investigations on the biology of rats and fleas, and on other subjects relating to the spread of plague in East Java. Geneesk. Tijdschr. v. Nederlandsch-Indië. 53: 53-154, 1913.
Trop. Dis. Bull. 2: 68-71, 1913.

XVI. Epidemiology. Animal Hosts. Epizootics.

Swellengrebel, N. H.; and Rosen, H. W.

The occurrence of rat plague without human plague in hidden foci. *Zeitschr. f. Hyg. u. Infektionskr.* 79: 436-451, 1915.
Trop. Dis. Bull. 6: 412, 1915.

* Taylor, J.

Rural plague in India. *Trop. Dis. Bull.* 35: 203, 1938.

Tikhomirov, J. J.

The relation of winter plague to epizootics in rodents. *Arch. Sci. Biol., URSS.* 26(1-3): 95-102, 1926.
Trop. Dis. Bull. 24: 936, 1927.

Tikhomirova, M.

The role of the jerboa, *Dipus sagitta* Pallas, in the epidemiology of plague. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 14: 61-63, 1935.
Trop. Dis. Bull. 33: 367, 1936.

Tikhomirova, M.; Sagorskaja, M.; and Il'in, B.

Rodents and fleas of the steppes and sandy regions in western Kazakhstan and their role in epidemiology of plague. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 14: 231-253, 1935. German summary, p. 253-254.

Tinker, J. S.; and Kalabuchov, N.

The life cycle of the ground squirrel (*Citellus pygmaeus* Pall.) and the laws of development of the plague epizootic. III. Changes in the susceptibility of the ground squirrels to the plague in connection with sex and age differences. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 13: 299-302, 1934.
Trop. Dis. Bull. 32: 849, 1935.

Tuck, G. L.

Further note on natural and experimental plague in tarbagans. *J. Hyg.* 22: 329-334, 1924.

Tumanski, V. M.

Beginning of spontaneous plague epizootics among Ziesels and their course. *Vest. Mikrobiol. Epidemiol. i Parazitol.* 14: 419-424, 1935.
Trop. Dis. Bull. 33: 872, 1936.

United States Public Health Service.

The rat and its relation to the public health. *Pub. Health Bull. No. 30*, 1910.

* Uriarte, Leopoldo.

Fleas and plague. *Rev. Inst. Bact. Buenos Aires.* 6: 57-98, 1934.
Trop. Dis. Bull. 35: 447-448, 1935.

Uriarte, Leopoldo.

Plague, fleas and field rodents. *Rev. Inst. Bact. Buenos Aires.* 8: 142-158, 1936.
Trop. Dis. Bull. 34: 410, 1937.

* Uriarte, Leopoldo; and Villazon, N. M.

Plague in gnawing rodents in Argentina. *Rev. Inst. Bact. Buenos Aires.* 7: 185-212, 1935.

* Uriarte, Leopoldo; and Villazon, N. M.

Susceptibility and non-susceptibility to plague of some animals. *Rev. Inst. Bact. Buenos Aires.* 7: 720-726, 1936.

Van der Walle, N.

The rats and the rat fleas of Macassar. *Meded. Dienst. d. Volksgezondh. in Nederl.-Indië.* 21: 263-276, 1932.
Trop. Dis. Bull. 30: 523, 1933.

Wassilieff, A.

Bat plague in Tunis. *Bull. Off. Internat. d Hyg. Pub.* 29: 2097-2105, 1937.
Trop. Dis. Bull. 35: 209, 1938.

XVI. Epidemiology. Animal Hosts. Epizootics.

Wassilieff, A.

The rodents and the fleas of Tunisia and their role in the transmission of plague. Arch. Inst. Pasteur de Tunis. 21: 298-340, 1932. Trop. Dis. Bull. 30: 524, 1933.

* Wassilieff, A.

Role of rodents and fleas in the propagation of plague. Susceptibility of the Tunisian rodents. Arch. Inst. Pasteur de Tunis. 22: 443-475, 1933. Trop. Dis. Bull. 31: 304, 1934.

* Wayson, E. E.

Plague-field surveys in western United States during ten years (1936-1945). Pub. Health Repts. 62: 780-791, 1947.

* Wheeler, C. M.; Douglas, J. R.; and Evans, F. C.

The role of the burrowing owl and the sticktight flea in the spread of plague. Science. 94: 560-561, 1941.

Wu, Lien Teh.

A further note on natural and experimental plague in Tarbagans. J. Hyg. 22: 329-334, 1923-1924. Trop. Dis. Bull. 21: 879, 1924.

Wu, Lien Teh

Hibernation experiments in plague. J. Oriental Med. 9(2): 17-20, 1928. Trop. Dis. Bull. 26: 98, 1929.

* Wu, Lien Teh

Hosts and carriers. In: Plague, a manual for medical and public health workers, by Lien Teh Wu et al. Shanghai, National Quarantine Service, 1936. p. 195-248.

* Wu, Lien Teh

Investigations into the relationship of the tarbagan (mongolian marmot) to plague. Lancet. 2: 529-535, 1913.

* Wu, Lien Teh

The perpetuation of plague among wild rodents. Amer. J. Hyg. 8: 649-670, 1928.

Wu, Lien Teh; and Ebersson, Frederick.

Transmission of pulmonary and septicæmic plague among marmots. J. Hyg. 16: 1-11, 1917.

Trop. Dis. Bull. 10: 287, 1917.

Wu, Lien Teh; and Pollitzer, R.

New survey of plague in wild rodents and pneumonic plague. Reports, Natl. Quarantine Service, p. 83-200, 1932.

Yokoyama, Tamon.

Microbiological studies on the suppression of animal vectors of plague in Manchuria. J. Oriental Med. 31: 417-565, 1939.

Trop. Dis. Bull. 37: 427, 1940.

BIBLIOGRAPHY ON PASTEURILLA PESTIS AND PLAGUE

XVII. EPIDEMIOLOGY. ARTHROPOD VECTORS.

- * Advier, M.
Experimental study of role of *Synosternum pallidus* in the transmission of plague. Bull. Soc. Path. Exot. 30: 643-646, 1937.
Trop. Dis. Bull. 35: 210, 1938.
- * The Advisory Committee for Plague Investigation in India.
Epitome of some recent observations on rat fleas. J. Hyg. Plague Suppl. 1. p. 7-10, 1911.
- * The Advisory Committee for Plague Investigation in India.
The experimental production of plague epidemics among animals. J. Hyg. 10(Plague No.): 315-334, 1910.
- The Advisory Committee for Plague Investigation in India.
Observations on flea breeding in Poona. J. Hyg. Plague Suppl. 2. p. 300-305, 1912.
Trop. Dis. Bull. 1: 541-543, 1913.
- * The Advisory Committee for Plague Investigation in India.
Observations on plague in Eastern Bengal and Assam. J. Hyg. Plague Suppl. 1. p. 157-192, 1911.
- * The Advisory Committee for Plague Investigation in India.
Observations on rat and human plague in Belgaum. J. Hyg. 10(Plague No.): 446-482, 1910.
- * The Advisory Committee for Plague Investigation in India.
Observations on rat and human plague in Poona. J. Hyg. 10(Plague No.): 483-535, 1910.
- Alessandrini, Giulio
Insects and bubonic plague. Rev. Sud. Amer. Endocrin. Immunol. Quimioter. 9: 677-681, 1926.
Biol. Abstr. #12553, 1927.
- * Aristarkhova, O.
Observations on endemic plague in Russia. Bull. Soc. Path. Exot. 23: 901-904, 1930.
- * Augustson, G. F.
The flea genus *Thraupis* and sylvatic plague with the description of *T. bernnani* n. sp. J. Parasit. 30: 237-240, 1944.
- Bacot, A. W.
The fleas found on rats and their relation to plague. J. Roy. Sanit. Inst. 40: 53-60, 1919.
Trop. Dis. Bull. 16: 44-45, 1920.
- * Bacot, A. W.
Further notes on the mechanism of the transmission of plague by fleas. J. Hyg. Plague Suppl. 4. p. 774-776, 1915.
- Bacot, A. W.
Notes on the development of *Bacillus pestis* in bugs (*Cimex lectularius*) and their power to convey infection. J. Hyg. Plague Suppl. 4. p. 777-792, 1915.
Trop. Dis. Bull. 5: 393, 1915.
- * Bacot, A. W.
Observations on the length of time that fleas (*Ceratophyllus fasciatus*) carrying *Bacillus pestis* in their alimentary canal are able to survive in the absence of a host and retain the power to re-infect with plague. J. Hyg. Plague Suppl. 4. p. 770-773, 1915.

Bacot, A. W.

On the survival of bacteria in the alimentary canal of fleas during metamorphosis from larva to adult. J. Hyg. Plague Suppl. 3. p. 655-681, 1914.
Trop. Dis. Bull. 3: 205, 1914.

Bacot, A. W.

A study of the bionomics of the common rat-fleas and other species associated with human habitations, with special reference to the influence of temperature and humidity at various periods of the life history of the insect. J. Hyg. Plague Suppl. 3. p. 447-654, 1914.
Trop. Dis. Bull. 3: 204, 1914.

Bacot, A. W.; and Martin, C. J.

Observations on the mechanism of the transmission of plague by fleas. J. Hyg. Plague Suppl. 3. p. 423-439, 1914.
Trop. Dis. Bull. 3: 201, 1914.

* Baltazard, M.; Seydian, B.;

Mofidi, Ch.; Bahmanyar, M.; and Pournaki, R.

The resistance of certain species of wild rodents to plague; observations made in nature. Ann. Inst. Pasteur. 85: 411-442, 1953.

* Barber, M. A.

The susceptibility of cockroaches to plague bacilli inoculated into the body cavity. Philippine J. Sci. 7B: 521-524, 1912.

Bichkov, V.; and Borzenkov, A.

On the determination of plague infected fleas by the method of preparation and seeding of the isolated alimentary canal. Vest. Mikrobiol. Epidemiol. i Parazitol. 8: 20-32, 1929.
Trop. Dis. Bull. 26: 637, 1929.

* Blanc, Georges.

Prolonged virulence of Pasteurella pestis in dead rat fleas, Xenopsylla cheopis, preserved in dry state. Ann. Inst. Pasteur. 75: 569-571, 1948.
Trop. Dis. Bull. 46: 461, 1949.

* Blanc, Georges; and

Baltazard, Marcel.

The mechanism of transmission of plague by Xenopsylla cheopis. Compt. Rend. Soc. Biol. 136: 646-647, 1942.
Trop. Dis. Bull. 42: 33, 1945.

* Blanc, Georges; and Baltazard, Marcel.

Experimental study of plague. Plague infection of Pulex irritans. Compt. Rend. Acad. Sci. 213: 813-816, 1941.
Trop. Dis. Bull. 41: 281, 1944.

Blanc, Georges; and Baltazard, Marcel.

Reply to remarks of Girard on the role of human ectoparasites in the epidemiology of plague. Bull. Soc. Path. Exot. 36: 208-216, 1943.
Trop. Dis. Bull. 42: 376, 1945.

* Blanc, Georges; and Baltazard, Marcel.

Virulence of plague-flea dejecta. Ann. Inst. Pasteur. 72: 486-489, 1946.
Trop. Dis. Bull. 43: 1038, 1946.

Borzenkov, A.; and Donskov, G.

The experimental infection of the tick, Hyalomma volgenae, P. schulze and E. schlottke, 1929, with plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 12: 25-30, 1933.
Trop. Dis. Bull. 31: 307, 1934.

Brown, J. H.

The fleas of Alberta with a list of the known vectors of sylvatic plague. Ann. Ent. Soc. Amer. 37: 207-213, 1944.

- * Burroughs, A. L.
The flea *Malaraeus telchinum*, a vector of *Pl. pestis*. Proc. Soc. Exper. Biol. Med. 55: 10-11, 1944.
- Burroughs, A. L.
✓ Sylvatic plague studies: survival of rodent fleas in the laboratory. Parasitology. 43: 35-48, 1953.
- * Burroughs, A. L.
✓ Sylvatic plague studies. The vector efficiency of nine species of fleas compared with *Xenopsylla cheopis*. J. Hyg. 45: 371-396, 1947.
- Bychkov, V. A.
On the role of fleas in the conservation and propagation of plague bacilli. Recueil des travaux dédiés aux 25^{me} anniversaire Scientifique du Professor Eugene Pavlosky, Moscow. p. 98-126. 1935.
French summary, p. 126-128.
- Bychkov, V. A.; and Borzenkov, A.
On diagnosing plague in fleas by preparing and culturing their isolated stomach-intestinal tract. Rev. Microbiol. Saratov. 12: 25, 1929.
- Carlé, R.
The ecological complex which determines the chain of infection in tularemia, plague, malaria, and sandfly fever in south Russia. Zeitschr. f. Tropenmed. u Parasit. 2: 558-602, 1951.
Bull. Hyg. 26: 1085, 1951.
- Cornwall, J. W.; and Menon, T. K.
On the possibility of the transmission of plague by bed-bugs. Indian J. Med. Res. 5: 137-159, 1917.
Trop. Dis. Bull. 11: 459, 1918.
- Davis, D. H. S.
A plague survey of Ngamiland, Bechuanaland, Protectorate, during the epidemic of 1944-1945. South African Med. J. 20: 462-467; 511-515, 1946.
Trop. Dis. Bull. 44: 76, 1947.
- Davis, D. H. S.
Some ecological methods in research on bubonic plague. South African J. Sci. 36: 438-444, 1939.
Trop. Dis. Bull. 38: 622, 1941.
- * De La Barrera, J. M.
Contribution to the knowledge of sylvatic plague in Argentina; character of the outbreak in Mendoza in 1937. Rev. Inst. Bact. Buenos Aires. 8: 431-454, 1937.
- * De La Barrera, J. M.
Studies on sylvatic plague outbreak in Mendoza. Rev. Inst. Bact. Buenos Aires. 9: 565-586, 1940.
- * Delanoë, P.
The importance of the human flea, *Pulex irritans* as a vector of plague in Morocco. Bull. Soc. Path. Exot. 25: 958-960, 1932.
Trop. Dis. Bull. 30: 163, 1933.
- De Raadt, O. L. E.
Can the plague be spread by head-lice? Meded. Burgerlijken Geneesk. Dienst. Nederl.-Indië. 4: 39-40, 1915.
Trop. Dis. Bull. 8: 255, 1916.
- De Raadt, O. L. E.
Contribution to the knowledge of the epidemiology of the plague in Java. Mededeel. Burgerlijken Geneesk. Dienst Nederl.-Indië. 4: 20-38, 1915.
Trop. Dis. Bull. 8: 253-254, 1916.

XVII. Epidemiology. Arthropod Vectors.

Devignat, R.

Broquet's medium for examination of plague fleas. Ann. Soc. Belge Méd. Trop. 18: 215-219, 1938.
Trop. Dis. Bull. 18: 215-219, 1938.

Devignat, R.

Standardization of epidemiological surveys in plague. Bol. Ofic. Sanit. Panamer. 24: 895-906, 1945.
Trop. Dis. Bull. 43: 647, 1946.

De Vogel, W. T.

Time during which *Xenopsylla cheopsis*, infected with plague, can transmit infection in climatologic conditions of the island of Java. Bull. Off. Internat. d'Hyg. Pub. 28: 1525-1543, 1936.

- * Dieudonne, A.; and Otto, R.
Pest. In: Handbuch der pathogenen Mikroorganismen, by W. Kollé, R. Kraus,; and P. Uhlenhuth. 3d ed. Jena, Gustav Fischer, 1928.
v. 4, p. 179-412.

- * Douglas, J. R.; and Wheeler, C. M.
Sylvatic plague studies. II. The fate of *Pasteurella pestis* in the flea. J. Infec. Dis. 72: 18-30, 1943.

- * Eskey, C. R.
Chief etiological factors of plague in Ecuador and the anti-plague campaign. Pub. Health Repts. 45: 2077-2115; 2162-2187, 1930.

- * Eskey, C. R.
Epidemiological study of plague in Peru, with observations on the antiplague campaign and laboratory work. Pub. Health Repts. 47: 2191-2207, 1932.

Eskey, C. R.

Epidemiological study of plague in the Hawaiian Islands. Pub. Health Bull. No. 213, 1934. 70p.
Trop. Dis. Bull. 32: 446, 1935.

- * Eskey, C. R.

Fleas as vectors of plague. Amer. J. Pub. Health. 28: 1305-1310, 1938.

- * Eskey, C. R.

Recent developments in our knowledge of plague transmission. Pub. Health Repts. 53: 49-57, 1938.

- * Eskey, C. R.; and Haas, V. H.

Plague in the western part of the United States. Infection in rodents, experimental transmission by fleas, and inoculation tests for infection. Pub. Health Repts. 54: 1467-1481, 1939.

- * Eskey, C. R.; Prince, F. M.; and Fuller, F. B.

Double infection of the rat fleas *X. cheopsis* and *N. fasciatus* with *Pasteurella* and *Salmonella*. Pub. Health Repts. 66: 1318-1326, 1951.

- * Evans, F. C.; Wheeler, C. M.; and Douglas, J. R.

Sylvatic plague studies. III. An epizootic of plague among ground squirrels in Kern County, California. J. Infec. Dis. 72: 68-76, 1943.

Evseeva, V.; and Firsov, I.

The suslik fleas as reservoirs of plague virus during winter. Vest. Mikrobiol. Epidemiol. i Parazitol. 11: 281-282, 1932.
Trop. Dis. Bull. 31: 31, 1934.

Faddeeva, T.

The role of ticks in the transmission and preservation of plague virus. I. Experimental infection of *Argas persicus* with plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 11: 273-278, 1932.
Trop. Dis. Bull. 31: 32, 1934.

Favarel, R.

The role of the human louse in the transmission of plague in Madagascar. Bull. Soc. Path. Exot. 41: 576-580, 1948.
Trop. Dis. Bull. 46: 357, 1949.

- * Fleas, ticks and lice retain plague infection after 10 months in icebox. Pub. Health Repts. 52: 1179, 1937.

Flu, P. C.

Further investigations on the question of mosquitoes as carriers of plague. Geneesk. Tijdschr. f. Nederl.-Indië. 56: 917-921, 1916.
Trop. Dis. Bull. 9: 480, 1917.

Flu, P. C.

Mosquitoes as carriers of plague? Geneesk. Tijdschr. f. Nederl.-Indië. 54: 540-551, 1914.
Trop. Dis. Bull. 5: 394, 1915.

Fourie, L.

The endemic focus of plague. South African Med. J. 12: 352-357, 1938.
Trop. Dis. Bull. 35: 751, 1938.

Gaisky, N. A.

A new carrier of plague, Ellobius talpinus. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 59-61, 1931.
Trop. Dis. Bull. 28: 877, 1931.

George, P. V.; and Webster, W. J.
Plague inquiry in the Cumbum Valley, South India. Indian J. Med. Res. 22: 77-103, 1934.

Gilmore, C. C. B.

Bubonic plague, rats and fleas in Singapore. Malayan Med. J. 9: 177-181, 1934.
Trop. Dis. Bull. 32: 450, 1935.

Girard, Georges.

Ectoparasites of man and the epidemiology of plague. Bull. Soc. Path. Exot. 36: 441, 1943.

Girard, Georges.

Epidemiology and prophylaxis of plague in the high plateaus of Madagascar. Rev. Hyg. Méd. Préventive. 59: 543-554, 1937.
Trop. Dis. Bull. 35: 207, 1938.

Girard, Georges.

The flea Synopsyllus fonquernii and its role in plague. Bull. Soc. Path. Exot. 34: 177-181, 1942.
Trop. Dis. Bull. 40: 842, 1943.

Girard, Georges.

Presence of bacteriophage in Xenopsylla cheopis in course of small plague epidemic at Tananarive. Compt. Rend. Soc. Biol. 120: 333-334, 1935.
Trop. Dis. Bull. 33: 370, 1936.

Girard, Georges.

Role of human ectoparasites in plague epidemiology. Bull. Soc. Path. Exot. 36: 441, 1943.
Trop. Dis. Bull. 42: 375, 1945.

- * Girard, Georges; and Estrade, F.

New biological facts relating to X. cheopis and its role in the persistence of endemo-epidemic plague conditions in Smyrna. Bull. Soc. Path. Exot. 27: 456-458, 1934.
Trop. Dis. Bull. 31: 879, 1934.

Golov, D. A.; and Ioff, I. G.

Influence of certain conditions on the conservation of B. pestis in fleas at various stages of their development. Compt. Rend. Premier Congrès Antipest, URSS. p. 158-181, 1927.
French summary, p. 464-467.
Biol. Abstr. #28617, 1931.

Golov, D. A.; and Ioff, I. G.

On the question of the role of the fleas of spermophiles in the epidemiology of plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 4: 19-48, 1925.
Trop. Dis. Bull. 23: 618, 1926.

- Golov, D. A.; and Ioff, I. G.
The suslik fleas as reservoirs of plague infection during winter. Vest. Mikrobiol. i Epidemiol. 5: 239-248, 1926.
Trop. Dis. Bull. 24: 937, 1927.
- * Golov, D. A.; and Knjasewskii, A.
The role of ectoparasites in empty suslik nests and the epidemiology of plague. Zent. f. Bakt. Abt. I. 118: 277-283, 1930.
Trop. Dis. Bull. 28: 383, 1931.
- Gosio, B.
Spread of plague by insect larvae. Beihefte z. Arch. f. Schiffs. u. Trop. Hyg. 29: 134-139, 1925.
Trop. Dis. Bull. 23: 617, 1926.
- Goyle, A. N.
Experiments on the transmission of plague by fleas of the genus *Xenopsylla* (*cheopis* and *astia*) with a discussion on the flea species distribution in its relation to the incidence of plague. Indian J. Med. Res. 15: 837-860, 1928.
Trop. Dis. Bull. 26: 98, 1929.
- * Gross, Bertram; and Bonnet, D.
Plague in the territory of Hawaii. II. Plague surveillance, Hamakua District, Island of Hawaii. Pub. Health Repts. 66: 1541-1549, 1951.
- Hecht, O.
Entomological notes on the epidemiology of bubonic plague in rodents in Venezuela. Rev. Sanidad Asis. Soc. 8: 1159-1162, 1943.
Trop. Dis. Bull. 41: 1034, 1944.
Trop. Dis. Bull. 42: 281, 1945.
- Herivaux, A.; and Toumanoff, G.
Practical significance of the results of studying the "Domestic flea index" in rats during a plague epidemic in Saigon. Bull. Soc. Path. Exot. 41: 318-325, 1948.
Trop. Dis. Bull. 46: 357, 1949.
- Hirst, L. A.
Plague fleas with special reference to the Milroy Lectures. J. Hyg. 24: 1-16, 1925.
- Hirst, L. F.
On the transmission of plague by fleas of the genus *Xenopsylla*. Indian J. Med. Res. 10: 789-820, 1923.
Trop. Dis. Bull. 20: 360, 1923.
- Hirst, L. F.
A rat-flea survey of Ceylon with a brief discussion of recent work on rat-flea species distribution in relation to the spread of bubonic plague in the East Indies. Ceylon J. Sci. Sect. D. 3: 49-113, 1933.
Trop. Dis. Bull. 30: 522, 1933.
- Hirst, L. F.
Researches on the parasitology of plague. Part I. Ceylon J. Sci. Sect. D. 1(Pt. 4): 155-271, 1926.
Trop. Dis. Bull. 24: 453, 1927.
- Hirst, L. F.
Researches on the parasitology of plague. Part II. The transmission of plague by the blood-sucking ectoparasites of rats with special reference to *Xenopsylla astia* and *X. cheopis*. Ceylon J. Sci. Sect. D. 1(Pt. 5): 277-455, 1927.
Trop. Dis. Bull. 24: 930-932, 1927.
- * Holdenried, R.
Sylvatic plague studies. VII. Plague transmission potentials of the fleas *Diamanus montanus* and *Polygenis gwyni* compared with *Xenopsylla cheopis*. J. Infec. Dis. 90: 131-140, 1952.
- Holdenried, R.
Sylvatic plague studies. VIII. Notes on the alimentary and reproductive tracts of fleas made during experimental studies of plague. J. Parasit. 38: 289-292, 1952.

XVII. Epidemiology. Arthropod Vectors.

- Holland, G. P.
A survey of the rat fleas of the southern British Columbia coast with relation to plague studies. Proc. Ent. Soc. British Columbia. No. 37: 1-5, 1941.
Trop. Dis. Bull. 39: 306, 1942.
- * Humphreys, F. A.; Campbell, A. G.; and Smith, E. S.
Plague infection in western Canada. Information gleaned from rodent surveys, 1938-1950. Canadian J. Pub. Health. 42: 68, 1951.
- * Humphreys, F. A.; Campbell, A. G.; and Smith, E. S.
Plague infection in western Canada. Information gleaned from rodent surveys. Canadian J. Pub. Health. 42: 437-438, 1951.
- * Hunter, William.
The spread of plague infection by insects. Zent. f. Bakt. Abt. I. 40: 43-55, 1905.
- Indian Plague Commission.
Further observations on the transmission of plague by fleas, with special reference to the fate of the plague bacillus in the body of the rat flea. J. Hyg. 7: 395-420, 1907.
- Indian Plague Commission.
The mechanism by means of which the flea clears itself of plague bacilli. J. Hyg. 8: 260-265, 1908.
- Indian Plague Commission.
Reports on plague investigations in India. I. Experiments upon the transmission of plague by fleas. J. Hyg. 6: 425-482, 1906.
- * Jellison, W. L.
Sylvatic plague; studies of predatory and scavenger birds in relation to its epidemiology. Pub. Health Repts. 54: 792-798, 1939.
- Jettmar, H. M.
Plague in insects. Zeitschr. f. Hyg. u. Infektionskr. 107: 498-509, 1927.
Biol. Abstr. #11497, 1928.
- Jorge, Ricardo.
Plague in Africa. Bull. Off. Internat. d'Hyg. Pub. v. 27, Suppl. to No. 9, Sept, 1935. 67p.
Trop. Dis. Bull. 33: 357, 1936.
- * Karman, Leo
A note on the problem of plague in Dakar, Senega, French West Africa. J. Parasitol. 32: 30-35, 1946.
- Kononova, S.
Fleas, the inhabitants of the spermophile burrow - the carriers and preservers of plague infection. Vest. Mikrobiol. i Epidemiol. 6: 39-40, 1927.
Trop. Dis. Bull. 24: 936, 1927.
- Kopstein, Felix.
The biology of the house shrew (*Pachyura murina* L.) and its significance for the epidemiology of bubonic plague in Java. Geneesk. Tijdschr. f. Nederl.-Indië. 72: 1337-1349, 1932.
Trop. Dis. Bull. 30: 165, 1933.
- Kopstein, Felix.
The geographical distribution of *Xenopsylla astia* in Java and its significance in the epidemiology of plague. Zeitschr. f. Hyg. u. Infektionskr. 114: 289-301, 1932.
- Kopstein, Felix.
Rats and rat-fleas of Java; guide for identifying species concerned in study of epidemiology. Mededeel. Menst. Volksgezondh. in Nederl.-Indië. 20: 35-72, 1931.
- * Kunhardt, J. C.; Taylor, J. et al.
Epidemiological observations in Madras Presidency. J. Hyg. Plague Suppl. 4. p. 683-751, 1915.

XVII. Epidemiology. Arthropod Vectors.

Lal, R. B.; and Seal, S. C.

An interim note on certain features of the outbreak of plague in Calcutta during March-May, 1948. Indian Med. Gaz. 83: 145-148, 1948. Trop. Dis. Bull. 46: 33, 1949.

Lang, H.

On the preservation of *B. pestis* in the larvae of the fly in the state of progressive development. Vest. Mikrobiol. Epidemiol. i Parasitol. 19: 96-97, 1940. Biol. Abstr. #18574, 1941.

Le Gall, R.

Plague in Madagascar. Bull. Off. Internat. d'Hyg. Pub. 35: 318-348, 1943. Trop. Dis. Bull. 42: 280, 1945.

* Link, V. B.

Plague. Amer. J. Trop. Med. 31: 452-457, 1951.

* Link, V. B.

Plague among wild rodents in Rio Arriba County, New Mexico. Amer. J. Trop. Med. 29: 493-500, 1949.

* Link, V. B.

Plague epizootic in cotton tail rabbits. Pub. Health Repts. 65: 696, 1950.

Long, J. D.; and Mostajo, Benjamin.

Fleas and bubonic plague. Bol. Ofic. Sanit. Panamer. 13: 1016-1024, 1934. Trop. Dis. Bull. 32: 448, 1935.

Macchiavello, Atilio.

Investigations on plague in north-east Brazil. Bull. Panamer. Sanit. Bur. 20: 441-462, 1941. Trop. Dis. Bull. 38: 624, 1941.

Macchiavello, Atilio.

Plague in Chile. Bull. Panamer. Sanit. Bur. 9: 909-915, 1932. Trop. Dis. Bull. 30: 162, 1933.

* Macchiavello, Atilio.

Some special epidemiological and clinical features of plague in northeastern Brazil. Pub. Health Repts. 56: 1657-1661, 1941.

Madras. Director of Public Health.

Report of the director of public health for 1933. Madras, Govt. Press, 1934. 169p. Plague research, p. 45-46.

Manning, J. v. V.

Bedbugs and bubonic plague. Med. Record. 82: 148-150, 1912. Trop. Dis. Bull. 1: 70, 1912.

Marras, F. M.

Observations and experiments on bubonic plague in British India. Ann. Med. Nav. Colon. 1: 301-335, 1929. Biol. Abstr. #20720, 1931.

* Martin, C. J.

The Horace Dobell Lectures on insect porters of bacterial infections. Lecture II. The Transmission of plague by fleas. Brit. Med. J. 1: 59-68, 1913. Also: Lancet. 1: 81-88, 1913.

* Meyer, K. F.

The ecology of plague. Medicine. 21: 143-174, 1942.

* Meyer, K. F.

The known and the unknown in plague. Amer. J. Trop. Med. 22: 9-36, 1942.

Meyer, K. F.

The role of the infected and the infective flea in the spread of sylvatic plague. V. Jaschr. Naturf. Ges. Zurich. 83(No. 30): 160-169, 1938.

XVII. Epidemiology. Insect Vectors.

- * Meyer, K. F.
Sylvatic plague. Amer. J. Pub. Health. 28: 1153-1164, 1938.
- * Meyer, K. F.
Sylvatic plague. Amer. J. Pub. Health. 29: 1225-1230, 1939.
- * Meyer, K. F.; and Holdenried, H.
Rodents and fleas in a plague epizootic in a rural area of California. Puerto Rico J. Pub. Health. 24: 201-209, 1949.
- * Meyer, K. F.; Holdenried, H.; Burroughs, A. L.; and Jawetz, E.
Sylvatic plague studies. IV. Inapparent, latent sylvatic plague in ground squirrels in Central California. J. Infec. Dis. 73: 144-157, 1943.
- Mitchell, J. A.; Pirie, J. H.; and Ingram, A.
A plague problem in South Africa: historical, bacteriological, and entomological studies. Publ. South African Inst. Med. Res. 3: 85-256, 1927.
Biol. Abstr. #6411, 1928.
- * Mohr, Carl O.
Entomological background of the distribution of murine typhus and murine plague in the United States. Amer. J. Trop. Med. 31: 355-372, 1951.
- Nikanorov, S. M.
Plague in the south east Union of Soviet Socialist Republics. Rodents and fleas in the conservation of plague. Bull. Internat. d'Hyg. Pub. 20: 537-564, 1928.
- Nikanorov, S.; and Knizaevsky, A.
Carrier of plague in Turkestan and the Transcaspian region. Vest. Mikrobiol. i Epidemiol. 6: 154-159, 1927.
Trop. Dis. Bull. 24: 936, 1927.
- Novikova, E. I.; and Lalazarov, G.A.
The role of bedbugs in the epidemiology of plague. I. The duration of viability of plague virus in the body of the infected bedbug. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 315-322, 1931.
Trop. Dis. Bull. 30: 163, 1933.
- Novikova, E. I.; and Lalazarov, G.A.
Viability of plague bacilli in corpses of Citellus pygmaeus. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 53-54, 1934.
Biol. Abstr. #11975, 1935.
- Office International d'Hygiene Publique.
Regional fauna of rats and fleas in their relationship to plague. Result of the inquiry of the permanent committee of the International Office of Public Hygiene, 1924-1927. Paris, Masson et Cie, 1928. 306p.
Trop. Dis. Bull. 26: 95-98, 1929.
- Otten, L.
The problem of the seasonal prevalence of plague. J. Hyg. 32: 396-405, 1932.
Trop. Dis. Bull. 29: 673, 1932.
- * Petrie, G. F.
Bacillus pestis. In: Great Britain Medical Research Council, A system of bacteriology in relation to medicine. London, HMSO, 1929. v. 3, p. 137-224.
- Philip, W. M.; and Hirst, L. F.
A report on the outbreak of the plague in Colombo 1914-1915. J. Hyg. 15: 527-564, 1917.
- * Plague infection discovered in fleas and lice taken from marmots in Montana and in a marmot in Utah. Pub. Health Repts. 51: 1159-1160, 1936.

XVII. Epidemiology. Arthropod Vectors.

- * Plague infection in fleas from Monterey County, and the Lake Tahoe region, California. Pub. Health Repts. 51: 5105, 1936.
- * Plague infection in fleas taken from ground squirrels in San Bernardino County, California. Pub. Health Repts. 51: 1445, 1936.
- * Plague infection found in fleas and lice taken from ground squirrels in Washington state. Pub. Health Repts. 52: 748-749, 1937.
- * Plague infection reported in the United States during 1941 in human beings. Pub. Health Repts. 57: 903-905, 1942.
- * Plague infection reported in the United States in 1945. Pub. Health Repts. 62: 431-433, 1947.
- Plague infection reported in the United States in 1946. Pub. Health Repts. 62: 1336-1340, 1947.
- * Pollitzer, R.
Plague studies. 7. Insect vectors. Bull. World Health Organization. 7: 231-242, 1953.
- * Pooled flea inoculations reveal plague-infected areas in California. Pub. Health Repts. 51: 844-845, 1936.
- * Prince, F. M.
Report on the fleas *Opisocrostis bruneri* (Baker) and *Thraupis bacchi* (Roths) as vectors of plague. Pub. Health Repts. 58: 1013-1016, 1943.
- Prince, F. M.
Species of fleas on rats collected in states west of the 102d meridian and their relation to the dissemination of plague. Pub. Health Repts. 58: 700-708, 1943.
- * Prince, F. M.; and Wayson, N. E.
Addendum to plague - the survival of the infection in fleas of hibernating ground squirrels. Pub. Health Repts. 62: 1167-1168, 1947.
- Prince, F. M.; and Wayson, N. E.
Plague - the survival of the infection in fleas or hibernating ground squirrels. Pub. Health Repts. 62: 463-467, 1947.
- * Rao, S. R.
Rat-fleas of Calcutta; investigated from a point of view of epidemiology of plague. Indian J. Med Res. 29: 51-70, 1941.
Trop. Dis. Bull. 38: 620, 1941.
- Rao, S. R.
Studies in epidemiology of plague in H.E.H. the Nizam's Dominions: comparison of certain factors in plague infected place with that of neighboring plague-free area. Indian Med. Gaz. 75: 80-86, 1940.
- Raybaud, A.
The role of the cat in plague. Marseille-Med. 73: 713-718, 1937.
Trop. Dis. Bull. 34: 789, 1937.
- * Roberts, J. I.
The relationship of field rodents to plague in Kenya. J. Hyg. 39: 334-344, 1939.
Trop. Dis. Bull. 36: 965, 1939.
- Roberts, J. I.
The relationship of the cotton crop to plague, and its role as a vehicle for rats and fleas in east Africa. J. Hyg. 35: 388-403, 1935.
Trop. Dis. Bull. 33: 359, 1936.
- * Roberts, J. I.
The transmission of plague in Kenya. J. Trop. Med. & Hyg. 53: 80-87, 1950.

Robic, J.

Plague in Madagascar. Ann. Méd. Pharm. Colon. 35: 305-358, 1937.
Trop. Dis. Bull. 35: 208, 1938.

* Roubaud, E.

Predominance of *Synosternus pallidus* Taschenb. (*Xenopsylla pallida*) as domestic flea in plague infested regions of Senegal. Bull. Soc. Path. Exot. 24: 551-554, 1931.

Roy, D. N.

A note on fleas and rats with reference to plague in Calcutta. Indian Med. Gaz. 83: 149-150, 1948.
Trop. Dis. Bull. 46: 34, 1949.

Russo, Canio.

✓ Experimental transmission of plague by insects. Bull. Off. Internat. d'Hyg. Pub. 22: 2108-2120, 1930.
Trop. Dis. Bull. 28: 384, 1931.

Russo, Canio.

Propagation of the plague bacillus in relation to the metamorphoses of Coleopterous insects and acari. Rend. Ist. Sanit. Pub. 2: 175-196, 1939.

Sassuchin, D.; and Tichomirova, M.

Preservation of *Pasteurella pestis* in the larvae and nymphs of the tick. Vest. Mikrobiol. Epidemiol. i Parazitol. 15: 357-361, 1936.
Trop. Dis. Bull. 35: 215, 1938.

Sautet, Jacques.

Various arthropods in the transmission of plague. Arch. Méd. Gen. Colon. 7: 42-49, 1938.
Trop. Dis. Bull. 35: 755, 1938.

* Savino, Enrico; and Goobar, J. E.

Rural plague in department of Rio Seco; *Gromys griseoflavus centralis* as depository of virus; finding of spontaneous plague in wild rodents and in domestic cat. Rev. Inst. Bact. Buenos Aires. 12: 287-292, 1944.

Savino, Enrico; and Goobar, J. E.

Rural plague in Rio Seco; *Gravomys griseoflavus* as reservoir and the discovery of plague in field rodents and cats. Bol. Sanitario, Buenos Aires. 7: 193-200, 1943.
Trop. Dis. Bull. 42: 33, 1945.

* Schoebl, Otto

Bacteriological observations made during the outbreak of plague in Manila in 1912. Philippine J. Sci. 8B: 409-428, 1913.

Seal, S. C.

Epidemiology of plague with reference to the present Calcutta outbreak. Calcutta Med. J. 46: 167-178; 218-234, 1949.

Simond, P. L.

✓ Role of fleas in transmission of plague. Rev. d'Hyg. 58: 5-17, 1936.

* Stewart, M. A.

Carbon disulphide in the control of sylvatic plague vectors. Amer. J. Hyg. 36: 243-246, 1942.

Stewart, M. A.

Present knowledge of the status of vectors of sylvatic plague in North America. Proc. 6th Pacific Sci. Congr. 4: 433-437, 1939.
Trop. Dis. Bull. 40: 841, 1943.

* Stewart, M. A.; and Evans, F. C.

A comparative study of rodent and burrow flea populations. Proc. Soc. Exper. Biol. Med. 47: 140-142, 1941.

XVII. Epidemiology. Arthropod Vectors.

- * Stewart, M. A.; and Mackie, D. B.
The control of sylvatic plague vectors. Amer. J. Hyg.
28: 469-480, 1938.
- Strickland, C.
An analysis of seven years epidemics of plague involving 2, 520 infected villages in the Belgaum and Dharwar districts, Bombay presidency. Indian J. Med. Res. 21: 29-65, 1933.
Trop. Dis. Bull. 31: 30, 1934.
- Swellengrebel, N. H.
Investigations on the biology of rats and fleas, and on other subjects relating to the spread of plague in East Java. Geneesk. Tijdschr. f. Nederl.-Indië.
53: 53-154, 1913.
Trop. Dis. Bull. 2: 68-71, 1913.
- * Swellengrebel, N. H.; and Otten, L.
Experimental contributions to the knowledge of plague transmission by fleas and lice. Zent. f. Bakt. Abt. I. 74: 592-603, 1914.
Trop. Dis. Bull. 5: 24, 1915.
- Swellengrebel, N. H.
The flea infestation of East Java rats and the significance of the parallelism of flea and plague curves. Zeitschr. f. Hyg. u. Infektionskr. 79: 492-519, 1915.
Trop. Dis. Bull. 6: 411, 1915.
- Swellengrebel, N. H.
Interhuman transmission of Bubonic plague. Bull. Off. Internat. d'Hyg. Pub. 38: 788-791, 1946.
Excerpta Med. IV. #2628, 1948.
- ✓ Taylor, J.; and Chitre, G. D.
Comparative experiments on the transmission of plague by *X. cheopis* and *X. astia* with a discussion of certain epidemiological evidence as to the relation of these fleas to epidemic plague. Indian J. Med. Res. 11: 621-638, 1923.
Trop. Dis. Bull. 21: 440, 1924.
- Thornton, E. N.
Positions in regard to plague in the Union of South Africa and the mandated territory of South West Africa. Quart. Bull. Health Organ. League of Nations. 2: 64-90, 1933.
- Tikhomirova, M. M.
Meriones meridianus Pall. as carrier of virus in sandy territories of southern Volga-Rural steppes. Vest. Mikrobiol. Epidemiol. i Parazitol. 13: 89-101, 1934.
- Tikhomirova, M.; and Nikanorov, S.
Ticks as plague carriers. Vest. Mikrobiol. Epidemiol. i Parazitol. 9: 60-61, 1930.
Trop. Dis. Bull. 28: 393, 1931.
- Tikhomirova, M. M.; Sagorskaja, M.; and Iljin, B.
Rodents and fleas of steppes and sandy regions in western Kazakhstan and their role in epidemiology of plague. Vest. Mikrobiol. Epidemiol. i Parazitol. 14: 231-253, 1935.
German summary, p. 253-254.
- * Traub, R.; and Johnson, P. T.
Fleas collected during a plague survey in Venezuela. Bull. Panamer. Sanit. Bur. 32: 111-135, 1952.
- Tumanskii, V. M.; and Poliak, I.
On the preserving of plague virus in the organism of fleas in suslik nests at non-epizootic period. Vest. Mikrobiol. Epidemiol. i Parazitol. 10: 325-326, 1931.
Trop. Dis. Bull. 30: 164, 1933.
- * Uriarte, Leopoldo.
Fleas and plague. Rev. Inst. Bact. Buenos Aires. 6: 57-98, 1934.
Trop. Dis. Bull. 35: 447-448, 1935.

XVII. Epidemiology. Arthropod Vectors.

Uriarte, Leopoldo.

Plague, fleas and field rodents.
Rev. Inst. Bact. Buenos Aires.
8: 142-158, 1936.
Trop. Dis. Bull. 34: 410, 1937.

Van der Walle, N.

The rats and the rat fleas of
Macassar. Meded. Dienst. Volks-
gezondh. in Nederl.-Indië.
21: 263-276, 1932.
Trop. Dis. Bull. 30: 523, 1933.

Verjbitski, D. T.

The part played by insects in the
epidemiology of plague. J. Hyg.
8: 162-208, 1908.

Wagner, J.; and Ioff, I.

On the fleas of susliks and
gerboas and their role in the spread
of plague in the Volga steppes.
Vest. Mikrobiol. i Epidemiol.
5: 57-100, 1926.
Trop. Dis. Bull. 24: 33, 1927.

* Wassilieff, A.

The rodents and the fleas of
Tunisia and their role in the trans-
mission of plague. Arch. Inst.
Pasteur de Tunis. 21: 298-340, 1932.
Trop. Dis. Bull. 30: 524, 1933.

* Wassilieff, A.

Role of rodents and fleas in the
propagation of plague. Susceptibility
of the Tunisian rodents. Arch. Inst.
Pasteur de Tunis. 22: 443-475, 1933.
Trop. Dis. Bull. 31: 304, 1934.

* Wayson, N. E.

Plague-field surveys in western
United States during ten years
(1936-1945). Pub. Health Repts.
62: 780-791, 1947.

Webster, W. J.

Rat fleas and transmission of
plague. Indian J. Med. Res. 18:
391-405, 1930.

Webster, W. J.; and Chitre, G. D.

Observations on rat-fleas and
the transmission of plague. Part I.
Indian J. Med. Res. 17: 699-709,
1930.
Trop. Dis. Bull. 27: 731, 1930.

* Wheeler, C. M.; and Douglas, J. R.

Sylvatic plague studies. V. The
determination of vector efficiency.
J. Infec. Dis. 77: 1-12, 1945.

* Wheeler, C. M.; and Douglas, J. R.

Transmission studies of sylvatic
plague. Proc. Soc. Exper. Biol.
Med. 47: 65-66, 1941.

* Wheeler, C. M.; Douglas, J. R.; and
Evans, F. C.

The role of the burrowing owl
and the sticktight flea in the spread
of plague. Science. 94: 560-561,
1941.

* Wu, C. Y.

Insect vectors. In: Plague, a
manual for medical and public health
workers, by Lien Teh Wu, et al.
Shanghai, National Quarantine Service,
1936. p. 249-308.

Wu, C. Y.

The occurrence, distribution and
seasonal prevalence of rat-fleas in
China with a note on their relation
to bubonic plague. Far Eastern
Assoc. Trop. Med. Trans. 9th Congr.
2: 761-771, 1934.
Trop. Dis. Bull. 32: 841-843, 1935.

* Wu, Lien Teh; Chun, J. W. H.; and
Pollitzer, R.

Plague transmission through the
ectoparasites of the Tarabagan.
Amer. J. Hyg. 5: 196-201, 1925.

Zasukhin, D. N.; and Tikhomirova, M. M.

Conservation of bacilli in larvae
of tick, Dermacentor silvarum Olen.
Vest. Mikrobiol. Epidemiol. i
Parazitol. 15: 357-361, 1936.

BIBLIOGRAPHY ON PASTEURRELLA PESTIS AND PLAGUE

XVIII. GENERAL ARTICLES. BOOKS, THESES, MONOGRAPHS, ETC.

Anderson, L. A. P.

Report of the Haffkine Institute
for the year 1929. p. 1-69.
Biol. Abstr. #22409, 1932.

Araujo Costa, Robert.

Diagnosis of plague in rats.
Monografias do Servico Nacional de
Peste I. 1947. 250p.
Trop. Dis. Bull. 45: 513-514, 1948.

* Bannerman, W. B., ed.

Scientific memoirs by officers
of the medical and sanitary depart-
ments of the government of India.
Serum therapy of plague in India.
Reports by W. M. Haffkine, and
various officers of the plague
research laboratory, Bombay.
Calcutta, Off. of Superintendent of
Govt. Printing, India, 1905. 73p.

Beneke, R.

Die Pest. Hamburg, 1900. 70p.

Bermudez, Salvador.

La campana contre la peste
bubonica. Mexico, Imp. de Murguia,
1921. 65p.

Boucher, H.

La peste en Europe et en Asie;
empoisonnement de la race humaine
par les vaccins et les sérums.
Paris, Librairie Générale et Zoophile,
1911. 23p.

Budberg, Roger.

Bilder aus der Zeit der Lungen-
pest-Epidemien in der Mandchurei.
Hamburg, G. Behre, 1923. 312p.

Cantlie, J.

Plague; how to recognize, prevent
and treat plague. London, P.S. King
& Co., 1900. 66p.

Comptes Rendus du Premier Congrès
Antipesteux de l'U.R.S.S., Saratov
du 31 Mai au 3 Juin 1927.
Saratov, 1928. 502p.
Trop. Dis. Bull. 26: 92-95, 1929.

Comptes Rendus du 4-ième Congrès
antipesteux organisé à Saratov par
l'Institut de microbiologie et
d'épidémiologie d'état du Sud-Est
de la Russie de 19 à Mars de 1924.
201p. In Russian.

Comptes Rendus du 5-ième Congrès
antipesteux organisé à Saratov par
l'Institut de Microbiologie et d'
épidémiologie d'état du sud-est de
l'U.R.S.S. de 5 à 9 Octobre de 1925.
301p. French, English & German
summaries, p. 253-292.
Trop. Dis. Bull. 23: 617, 1926.

* Crawford, Raymond.

Plague and pestilence in literature
and art. Oxford, Clarendon Press,
1914. 222p.

Cumpston, J. H. L.; and McCallum, F.

The history of plague in Australia
1900-1925. Commonwealth of
Australia. Dept. of Health Service
Publication No. 32. Melbourne, 1926.
238p.
Trop. Dis. Bull. 24: 929, 1927.

De Moura, S.A.L.; and Remiao, M. S.

Five years' records of the plague
laboratory. Rev. Inst. Aldelfo
Lutz. 5: 375-388, 1945.

Debradin, P.M.; and Skorodumov, A.

Collected works of the antiplague
organization of the eastern Siberian
region for 1929-1931. Trans. East
Siberian Reg. Inst. of Microbiol. &
Epidemiol. v. 1, 120p. 1933.
Trop. Dis. Bull. 32: 451, 1935.

XVIII. General Articles. Books, Theses, Monographs, etc.

- Doerenbos, W.
Étude sur la peste. Alexandria,
Morris, 1929. 16p.
- D'Ormea, G.
La peste, manuale pratico di
profilassi. Rome, 1919.
- Ecke, D. H.; Johnson, C. W.;
Miles, V. I.; Wilcomb, J. M.;
and Irons, J. V.
Plague in Colorado and Texas.
Public Health Monograph No. 6.
(Public Health Service Publication
No. 210). Washington, GPO, 1952.
54p.
Abstr.: Pub. Health Repts.
67: 1133-1134, 1952.
- Elkington, J. S. C.
A review of recent literature
and work on the epidemiology of
plague. Commonwealth of Australia
Quarantine Service Pub. No. 5.
Melbourne, Albert J. Mullett, Govt.
Printer, 1915. 32p.
Trop. Dis. Bull. 6: 410, 1915.
- Finsterwalder, C.
The plague laboratory of the
Hygiene Institute, Hamburg. Arch.
f. Hyg. u. Bakt. 129: 61-65, 1943.
- Frost, W. H.
Active and passive immunization
against plague. Washington, 1912.
- Gasquet, F. A.
The black death of 1347 and 1349.
2d ed. London, G. Bell & Sons, 1908.
272p.
- * Gay, F. P.
The pasteurella or hemorrhagic
septicemia group; plague, pseudotuber-
culosis; tularemia. In: Agents of
disease and host resistance by
Frederick P. Gay. Springfield,
Charles C. Thomas, 1935. p. 725-752.
- Girard, Georges.
Plague. The contribution of
Madagascar to our present condition
of knowledge. Sem. Hép.
27: 474-478, 1951.
- * Greenwood, Major.
Epidemics and crowd diseases.
Chap. X. Plague. London, Williams
& Norgate, 1935. p. 289-309.
- Haffkine, W. M. W.
A conversation on the preventive
inoculation against plague on the
3rd of January. Poona, 1898. 8p.
- Haffkine, W. M. W.
Experiment on the effect of
protective inoculation in the epi-
demic of plague at Undhera, Taluka
Baroda, February and March, 1898.
Bombay, 1898. 9p.
- Haffkine, W. M. W.
On prophylactic inoculation
against plague and pneumonia.
Calcutta, 1914. 36p.
- Haffkine, W. M. W.
Report on the preventive inocula-
tions against the plague during the
epidemic of 1897-1898. Bombay, 1898.
18p.
- Haffkine, W. M. W.
Summarised report on the Plague
Research Laboratory for 1896-1902.
Bombay, 1902. 39p.
Same, for 1902-1904. Bombay, 1904.
26p.
- * Hecker, J. F. K.
The epidemics of the Middle ages.
Transl. by B. G. Babington. London,
G. Woodfall & Son, 1944. 418p.
- Hirst, L. F.
Protection of the interior of
Ceylon from plague. Colombo, Ceylon,
The Author, 1931. 52p.

XVIII. General Articles. Books, Theses, Monographs, etc.

Hopkins, G. H. E.

Report on rats, fleas and plague in Uganda. East African Standard Ltd. for the Govt. Printer of Uganda, 1949. 52p.

Trop. Dis. Bull. 48: 460, 1951.

India.

The plague in India, 1896, 1897. Compiled by R. Nathan, Indian Civil Service. Simla, 1898. 4v.

India. Plague Commission.

Indian Plague Commission, 1898-1899. Minutes of evidence taken before the Indian Plague Commission; with appendices. London, 1900-1901. 5 vol.

India. Sanitary Commissioner with The Government of India, Simla.

The etiology and epidemiology of plague; a summary of the work of the Plague Commission. Calcutta, Govt. Printer, 1908. 93p.

India. Secretary of State.

Advisory Committee.

Reports on plague investigations in India; issued by Advisory Committee, appointed by Secretary of State for India, the Royal Society and the Lister Institute of preventive medicine. v. 1, 2 pts. Cambridge, University Press, 1911. 828p.

Indian Research Fund Association.

Plague researches under the Director, Haffkine Institute, Bombay. Report Scient. Advisory Board for year 1942. p. 54-59. Trop. Dis. Bull. 41: 38, 1944.

Indian Research Fund Association.

Plague. Report Scient. Advisory Board for year 1946. p. 49-52. Trop. Dis. Bull. 44: 997, 1947.

Indian Research Fund Association.

Plague. Report Scient. Advisory Board for year 1948. p. 88-97. Trop. Dis. Bull. 47: 735, 1950.

International Plague Conference, Mukden, Manchuria.

Report of the International Plague Conference held April, 1911. Manila, 1912.

Ishigami, T.

A text-book on plague. Revised by S. Kitasato. Transl., enlarged, and illustrated with pathogenic horticulture by D. Mac Donald. Adelaide, Vardon & Pritchard, 1905. 180p.

Jackson, T. W.

Plague; its cause and the manner of its extension, its menace, its control and suppression, its diagnosis and treatment; with bacteriological observations by Dr. O. Schöbl. Philadelphia, J. B. Lippincott, 1916. 192p.

Jennings, W. E.

A manual of plague. With an introduction by G. Bainbridge. London, Rebman, 1903. 254p.

Joltrain, E.

La peste; etiologie, formes cliniques, prophylaxie, traitement. Paris, A. Maloine & Fils, 1921. 184p.

Karsenty, A.

Les réservoirs du virus de la peste. Paris, 1924. 72p.

Keys, T. E.

The plague in literature. Bull. Med. Library Assoc. 32: 35-56, 1944.

King, F. A.

Four centuries of the plague in England. Med. World, London. 70: 497-502, 1949.

XVIII. General Articles. Books, Theses, Monographs, etc.

King, P. A.

Four centuries of the plague in England; the plague in Essex. Med. World, London. 71: 218-222, 1949.

Klebs, A. C.; and Drex, E.

Remedies against the plague. Paris, Gasson Jeanbin, 1925. 95p.

Klein, E.

Studies in the bacteriology and etiology of oriental plague. London, 1906.

Lamb, G., comp.

The etiology and epidemiology of plague. A summary of the work of the Plague Commission. Calcutta, Superintendent of Govt. Printing, 1908. 93p.

Macchiavello, Atilio.

Contribuciones al estudio de la peste bubónica en el nordeste del Brasil. Washington, Pan American Sanitary Bureau, 1941. 331p. Oficina Sanitaria Panamericana Publicación No. 165.

Macchiavello, Atilio

Diagnóstico, tratamiento y recolección de muestras en la peste bubónica. Washington, Oficina Sanitaria Panamericana, 1946. 9p. Oficina Sanitaria Panamericana Publicación 226.

* McCoy, G. W.

Plague. In: Clinical tropical medicine, ed by Z. T. Bercovitz. Chap. XIV. New York, Paul B. Hoeber, 1944. p. 511-525.

* Manson-Bahr, P. H.

Manson's tropical diseases. Chap. XII. Plague. 13th ed. Baltimore, William & Wilkins, 1950. p. 271-295.

Maza y Martinez, A.

Study of plague. San. & Benef., Havana. 41: 83-140, 1938.

Miño, C. A.

La peste bubónica en el Ecuador; factores etiológicos, formas clínicas y erradicación. Quito, Imprenta Nacional, 1933. 107p.

Moll, A. A.

Plague in the Americas: an historical and epidemiological survey by Aristides A. Moll and Shirley Baughman O'Leary. Washington, 1945. 280p. Panamerican Sanitary Bureau Publication 225.

Office International d'Hygiene Publique.

Les faunes regionales des rongeurs et des puces dans leurs rapports avec la peste. Resultats de l'enquete du comite permanent de l'Office International d'Hygiene Publique 1924-1927. Paris, Masson et Cie, 1928. 306p. Trop. Dis. Bull. 26: 95-98, 1929.

Petrie, G. F.; and Todd, R. E.

Plague report. Dept. of Public Health, Cairo Egypt. Reports and notes of the public health laboratories No. 5. Cairo, Govt. Press, 1923. 114p. Trop. Dis. Bull. 21: 875, 1924.

Podolsky, E.

Waldemar Haffkine and the plague eliminator. Med. Woman's Journal. 57(11): 38-42, 1950.

Pozzo, Adolfo.

Peste de Oriente. Buenos Aires, Editorial "Alfa", 1945. 259p. Trop. Dis. Bull. 43: 880, 1946.

Ricquebourg, Emmanuel.

De la pénétration du bacille de Yersin dans le sang de l'homme, bacillémie et septicémie pesteuses. Paris, 1921. 52p.

XVIII. General Articles. Books, Theses, Monographs, etc.

Rio, A. J. A.

Les formes ambulatoires de la peste. Étude clinique et bactériologique. Paris, Angers, 1921. 52p.

Rockenmacher, Morris.

Studies on the nutrition and physiology of *Pasteurella pestis*. Thesis, Univ. Calif., Berkeley. 1950.

Shrewsbury, J. F. D.

The yellow plague. J. Hist. Med. 4: 5-47, 1949.

Simon, R.

A study of the susceptibility to plague of the rodents of the neotropical region. Monografias do Servico Nacional de Peste, 3. Rio de Janeiro, 1951. 69p. Trop. Dis. Bull. 49: 140, 1952.

Simpson, W. J.

A treatise on plague, dealing with the historical, epidemiological, clinical, therapeutic and preventive aspects of the disease. London, Cambridge University Press, 1905. 466p.

Skvarchenko, G. O.

Lyudskaya chuma. (Human plague). 2d ed. St. Petersburg, V. Berezovski. 1912. 48p.

Strong, R. P.

Stitt's diagnosis, prevention and treatment of tropical diseases. V. I., Chap. XVIII, Plague. 6th ed. Philadelphia, Blakiston, 1942. p. 651-711.

Suarez, P. A.

Algunas observaciones sobre la peste negra y la pulga cheopis en el Ecuador. Quito, Ecuador, Talleres Tipográficos Nacionales, 1927. 24p.

Thomson, G. S.; and Thomson, J.

A treatise on plague; the conditions for its causation, prevalence, incidence, immunity, prevention and treatment. London, S. Sonnenschein & Co., 1901. 299p.

Thornton, E. N.

A report on an investigation into plague in the protectorate of Uganda. Entebbe, 1930. 33p. Trop. Dis. Bull. 28: 380, 1931.

Tricot-Royer.

How did Europe defend itself against the plague. Scalpel. 104: 835-845, 1951.

Tumanakii, V. M.

Mikrobiologiya chumy. Leningrad, Medgez, 1948. 158p.

Veintemillas, Felix.

La peste bubonica en Bolivia. La Paz, 1936. 193p.

Verdes Montenegro, J.

Bubonic plague; its course and symptoms and means of prevention and treatment according to the latest scientific discoveries, including notes on cases in Oporto. Transl. by Munro. New York, W. Wood & Co., 1900. 84p. London, Ballière, Tindall & Cox, 1900. 84p.

Verzhbitski, D. T.

Role of insects in the epidemiology of the plague; experimental investigation on fleas...and bugs. St. Petersburg, 1904. 160p.

Al-Wakil, Abh at-Wahid.

Third pandemic of plague in Egypt; historical, statistical and epidemiological remarks on the first thirty-two years of its prevalence. Egyptian Univ. Faculty of Med. Pub. No. 3. Orman Gardens, Egypt, Egyptian Univ. Library, 1932. 169p.

XVIII. General Articles. Books, Theses, Monographs, etc.

- * Walsh, J. H. T.
Plague: recent progress in
etiology, pathology and treatment.
Trop. Dis. Bull. 19: 541-545, 1922.
- * War Department.
Plague. War Med. 7: 40-43, 1945.
- Webster, W. J.
Notes on study of plague in field.
Indian Med. Gaz. 67: 693-696, 1932.
- White, Norman.
Twenty years of plague in India.
Simla, Govt. Central Press, 1920.
- * Wilcocks, Charles.
Summary of recent abstracts.
Plague.
Trop. Dis. Bull. 36: 523-529, 1939.
Trop. Dis. Bull. 37: 469-475, 1940.
Trop. Dis. Bull. 38: 367-372, 1941.
Trop. Dis. Bull. 39: 421-427, 1942.
Trop. Dis. Bull. 40: 505-510, 1943.
Trop. Dis. Bull. 41: 523-528, 1944.
Trop. Dis. Bull. 42: 528-533, 1945.
Trop. Dis. Bull. 43: 617-620, 1946.
Trop. Dis. Bull. 44: 631-634, 1947.
Trop. Dis. Bull. 45: 564-567, 1948.
Trop. Dis. Bull. 46: 597-601, 1949.
Trop. Dis. Bull. 47: 579-582, 1950.
Trop. Dis. Bull. 48: 603-606, 1951.
Trop. Dis. Bull. 49: 659-661, 1952.
Trop. Dis. Bull. 50: 591-595, 1953.
- * Wilson, G. S.; and Miles, A. A.
Topley and Wilson's Principles
of bacteriology and immunity.
v. 1, Chap. 32, Pasteurella. v. 2,
Chap. 73, Plague, Pasteurellosis and
Pseudotuberculosis. 3d ed., rev.
Baltimore, William & Wilkins, 1946.
p. 767-785; 1627-1652.
- Wu, Lien Teh, ed.
Manchurian plague prevention
service. Memorial volume, 1912-1932.
Shanghai, National Quarantine Service,
1934. 469p.
- Wu, Lien Teh.
North Manchurian plague prevention
service reports, 1927-1928 to
1929-1930. Chicago, Chicago Med.
Book Co., 1928-1930. 2v.
- Wu, Lien Teh.
A treatise on pneumonic plague.
League of Nations, Health Organization.
C.H. 474. Geneva, 1926.
- * Wu, Lien Teh; Chun, J. W. H.;
Pollitzer, R.; and Wu, C. Y.
Plague; a manual for medical
and public health workers.
Shanghai, Weishingshu National
Quarantine Service, 1936. 547p.
- Wyman, W.
The bubonic plague. Washington,
D. C., 1900. 50p.
- Yang, C. S.
Some notes and comments on the
"Black death". Chinese Med. J.
65: 31-36, 1947.
Trop. Dis. Bull. 44: 1063, 1947.

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